







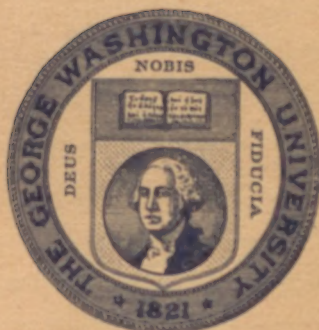
VOLUME X

NUMBER 1

The  
George Washington University

DEPARTMENT OF MEDICINE

ANNOUNCEMENT  
FOR THE  
NINETY-FIRST SESSION  
1911-1912



Washington, D. C.  
Published by the University  
March, 1911



DEPARTMENT OF MEDICINE  
THE GEORGE WASHINGTON UNIVERSITY

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CALENDAR

1911-1912

1911.

May 23-26, *Tuesday to Friday*.—Examinations for admission and competitive examinations for scholarships.

June 7, *Wednesday*.—University Commencement.

SUMMER VACATION.

September 18, *Monday*.—Fall Examinations and Examinations for Admission.

September 27, *Wednesday*.—Academic Year begins in all Departments of the University.

November 23-25, *Thursday to Saturday*, both inclusive.—Thanksgiving Recess.

DECEMBER 23, 1911, TO JANUARY 2, 1912, BOTH INCLUSIVE.—CHRISTMAS HOLIDAYS, RECESS.

1912.

January 3, *Wednesday*.—Instruction Resumed.

January 29, *Monday*.—Second Term begins.

February 22, *Thursday*.—Winter Convocation.

April 5-8, *Friday to Monday*, both inclusive.—Easter Holidays.

May 21-24, *Tuesday to Friday*.—Examinations for Admission.

May 24, *Friday*.—Examinations for Degrees Completed.

June 2, *Sunday*.—Baccalaureate Sermon.

June 5, *Wednesday*.—University Commencement.

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The Dean's office is in the Medical College Building, 1325 H St. N. W.

The offices of the Secretary and the Treasurer are in the Academic Building, on I Street between 15th and 16th Streets N. W.

For catalogue and general information, address

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The  
George Washington University

DEPARTMENT OF MEDICINE

WHICH INCLUDES

THE COLLEGE OF MEDICINE

AND

THE UNIVERSITY HOSPITAL AND DISPENSARY

---

ANNOUNCEMENT

1911-1912

CATALOGUE

1910-1911

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PUBLISHED BY THE UNIVERSITY, AT WASHINGTON, D. C., MARCH, 1911



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DEPARTMENT OF MEDICINE.

9

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THE STAFF OF THE GEORGE WASHINGTON UNIVERSITY HOSPITAL AND DISPENSARY.

## HOSPITAL.

STERLING RUFFIN, M.D.	Physician-in-Chief
GEORGE N. ACKER, M.D.,	}
H. H. DONNALLY, M.D.,	
B. M. RANDOLPH, M.D.,	
W. C. BORDEN, M.D.	Surgeon-in-Chief
C. S. WHITE, M.D.,	}
JOHN R. WELLINGTON, M.D.,	
W. F. M. SOWERS, M.D.,	
A. R. SHANDS, M.D.	Orthopedic Surgeon
FRANCIS R. HAGNER, M.D.	Genito-Urinary Surgeon
HENRY R. ELLIOTT, M.D.,	}
HOMER G. FULLER, M.D.,	
J. WESLEY BOVÉE, M.D.	Gynecologist-in-Chief
G. BROWN MILLER, M.D.	Associate Gynecologist
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G. A. SCHAUB.	Extern
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A. E. PAGAN.	Extern
J. C. ECKHARDT.	Extern
Miss B. B. THOMPSON.	Superintendent of Nurses and Principal of the Training School for Nurses



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WM. C. BORDEN, M.D.....	<i>Surgeon-in-Chief</i>
BENJ. R. LOGIE, M.D.....	<i>Director of the Dispensary</i>

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C. B. CONKLIN, M.D.,		
W. J. MALLORY, M.D.,	}	

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J. P. FILLEBROWN, M.D.,		

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HENRY R. ELLIOTT, M.D.,	} ..... <i>Associates</i>
HOMER G. FULLER, M.D.,	
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J. M. CABELL, M.D.,		

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C. C. AMMERMAN, M.D.....	<i>Asst. Laryngologist and Ophthalmologist</i>

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## Electro-Therapeutics.

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## Dermatology.

C. A. SIMPSON, M.D.....	<i>Attending Dermatologist</i>
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## Pediatrics.

MILTON HAHN, M.D.....	<i>Attending Pediatrician</i>
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### HISTORICAL.

The Department of Medicine of the George Washington University, in the chronological order of establishment, is the seventeenth Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an act of Congress approved January 23, 1904, the Columbian University changed its name to "The George Washington University."

When first established, and for many years thereafter, this school, like most others in this country, gave only a two years' course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session, devoted to lectures in certain special subjects. In 1879 the course was lengthened to seven months and attendance upon three annual sessions required, and in 1893 attendance on four annual courses was made obligatory upon all candidates for the degree of Doctor of Medicine. In order to increase the facilities for actual bedside teaching, the University Hospital and the University Dispensary were established in 1898 and made a part of the Department of Medicine. In 1902 the old Medical College building, in which the exercises had been held since 1867, gave place to the present large and commodious structure.

### EDUCATIONAL POSITION.

The Medical Department of the University has been for several years a member of the Association of American Medical Colleges. It is one of Medical Colleges designated as "acceptable, class A," by the American Medical Association, and it is accredited for all its work by the Combined (Royal) Medical Examining Boards in England.

These facts guarantee the character of the work done by the College and insures its students and graduates all the advantages which accrue from such association and recognition.

### BUILDINGS AND OTHER FACILITIES.

The Buildings of the Medical Department adjoin each other and consist of the Medical College Building and the University Hospital and the University Dispensary. They are most advantageously situated in the heart of the city near both systems of car lines. As the Hospital and Dispensary adjoin the College, their clinical facilities are easily accessible to the students, and the pathological material and the material for clinical microscopy and clinical chemistry afforded by the Hospital and Dispensary are directly used in the College laboratories.

The Medical College Building is a modern, commodious, five-story structure, with spacious, well-lighted, well-ventilated lecture and



class rooms, laboratories, and students' rooms. It has an elevator service, and is equipped throughout with steam heat, gas, electricity, and all modern improvements.

The **Laboratories**, five in number (for anatomy, chemistry, histology and embryology, physiology and pharmacology, and bacteriology and pathology), are fully equipped with the most approved appliances, so that students may adequately pursue the laboratory courses and acquire the technical skill necessary in modern clinical and research methods.

The **University Medical Library** is open for study and consultation from 9 a. m. to 9 p. m. It contains at present more than 3,000 volumes, and provision is made to add to it as published the important new works on medicine. The most important medical periodicals are regularly received. The Library is an excellent working collection, as it affords opportunity to adequately read up on the subjects presented in the courses.

The **Pathological Museum** contains a great many valuable and interesting specimens. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

#### ADVANTAGES OF LOCATION.

The advantages of Washington as a place for pursuing the study of medicine are many. This city now has nearly four hundred thousand inhabitants, providing abundant clinical material to the hospitals, which have an aggregate of over three thousand beds. In these hospitals clinical instruction, in addition to that in the University Hospital, is given by members of the Faculty.

The great libraries and museums connected with the various Government institutions afford unparalleled facilities for study.

The Library of the Surgeon General's Office of the United States Army is the most complete medical library in the world. All the facilities of this great library are open to medical students. There is also the Library of Congress, the Public Library, and the many excellent libraries of the various Government offices, all of which are open to students.

The **Army Medical Museum** affords an unrivaled opportunity for studying the conditions met with in military and general surgery. It contains on exhibition a collection of anatomical and pathological specimens unequalled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy and the National Museum which contains the most complete and best arranged collection of materia medica in the world. The drugs are shown in all their processes of manufacture. The Botanic

Gardens, the Smithsonian Institution, the Fish Commission, the Department of Agriculture, all afford opportunities for study both in medicine and its collateral sciences.

On account of the many advantages offered in this city, the *Army and Navy Medical Schools* have been here located. The Alumni of this College are largely represented in all public services, and have been highly successful in passing the rigid examinations by them. Ten per cent of the total number of the regular medical corps of the United States Army are graduates of this College.

*Aside from the special advantages offered for the study of medicine, the cosmopolitan character of the city of Washington, its climate (not excessively cold in winter), its beauty, and its interests, which, as it is the seat of the General Government, are broad and national, make it an ideal place for a medical student to pass his four years of study.*

#### ADMISSION.

The requirements for admission are those of the Association of American Medical Colleges, and are as follows:

Candidates for matriculation must present creditable certificates of good moral character from two physicians in good standing.

The educational requirements for admission are—

- (a) A Bachelor's degree from an approved college or university.
- (b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary and intermediate grades; and for graduation not less than four years of study.
- (c) Candidates not having a Bachelor's degree or a diploma from an accredited high school or academy may be admitted upon passing an examination in the following branches:

1. Required (18 points); Mathematics (4 points); English (4 points); History (2 points); Language (4 points—Latin, French, German); Science (taken from physics, chemistry, botany, zoölogy), 4 points.

2. Optional (to 12 points taken from); English (4 points); History (6 points); Language (6 points); Manual Training (2 points); Mechanical Drawing (1 point); Natural Science (botany, biology, and zoölogy, 2 points each); Astronomy, Civics, Geology, Physical Geography, Physiology and Hygiene, Political Economy (2 points each).

These examinations are conducted by the University, and will be held in the latter part of May and September. Candidates desiring examination must submit their certificates of character to the Dean before the first of the month in which they desire to be examined.

Certificates from reputable instructors recognized by the State Board of Medical Examiners duly authorized by law or by the Superintendent



of public instruction in States having no examining board may be accepted in lieu of any part of the examination.

A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks.)

As the laws relating to the preliminary educational qualifications required of physicians differ in many of the States of the Union, candidates are advised to make themselves familiar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

#### ADMISSION OF STUDENTS FROM OTHER SCHOOLS.

Students who have attended one or more terms at any other medical college in good standing, and who have the necessary preliminary educational requirements, may be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter, or upon presenting certificates of examination covering courses equal to those in this College.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted as special students without examination to pursue any course they may elect.

#### ACADEMIC YEAR.

The Academic Year begins on the last Wednesday in September and ends on the first Wednesday in June. It is divided into two semesters of four months each.

The term of study for the degree of Doctor of Medicine consists of four years of eight months each. The next session, the ninety-first, begins September 27, 1911, and ends June 5, 1912.

Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year.

Degrees are conferred at Commencement, the second Wednesday in June.

#### Optional Five-Year Course.

Since the session of 1904-05 a five-year optional course has been offered for the benefit of students. Students in this course take their

subjects with the regular four-year classes, but as they take fewer subjects each year, they are able to devote more time to each study.

### SYSTEM OF INSTRUCTION.

Instruction is carried on by laboratory work, recitations, lectures, bedside instruction, and hospital and dispensary clinics. Particular stress is laid upon laboratory work and clinical teaching. The clinical material of the University Hospital and Dispensary is utilized to the fullest extent, as the Hospital, the Dispensary, and the Medical College are under the same control. Additional clinics are given in other hospitals in the city to which members of the faculty are attached.

While the greatest stress is laid upon laboratory work and clinical teaching, it is recognized that the facts so obtained must be correlated and shown in their due relation to each other and to the science of medicine. To this end didactic lectures are maintained in certain branches, as they have been found necessary to give a systematic and comprehensive idea of the larger subjects in medicine. These lectures are followed by systematic and thorough quizzes, so that it may be certain that the students properly and thoroughly grasp the ideas presented by the lecturers.

The recitation and quiz work is made so complete that students do not need to employ private quizmasters.

The object sought throughout the courses is to thoroughly ground the students in the knowledge which is necessary to the practitioner of medicine. No particular attempt is made to graduate specialists in any subject. It is believed that the four years allowed are no more than sufficient time for the adequate preparation of the general practitioner.

*The policy adopted by the College is to give a comprehensive, well-graded, and well-proportioned course—one that will adequately prepare the graduate to practice general medicine and meet the requirements of State Boards.*



## ORDER OF INSTRUCTION.

The subjects studied in each year are shown in the following table. Major subjects are in italics:

First Year.	Second Year.	Third Year.	Fourth Year.
<i>Anatomy.</i> <i>Histology.</i> <i>Embryology.</i> <i>Physiology.</i> <i>General Chemistry.</i>	<i>Organic and Physiological Chemistry.</i> <i>Pathology.</i> <i>Bacteriology.</i> <i>Clinical Microscopy.</i> <i>Topographical Anatomy.</i> <i>Materia Medica.</i> <i>Pharmacology.</i> <i>Minor Surgery.</i> <i>Physical Diagnosis.</i> <i>Pathological Physiology.</i>	<i>Medicine.</i> <i>Surgery.</i> <i>Obstetrics.</i> <i>Therapeutics.</i> <i>Gynecology.</i> <i>Medical Jurisprudence.</i> <i>Clinical Chemistry.</i> <i>Dietetics.</i> <i>Clinics.</i>	<i>Medicine.</i> <i>Surgery.</i> <i>Obstetrics.</i> <i>Gynecology.</i> <i>Laryngology.</i> <i>Otology.</i> <i>Ophthalmology.</i> <i>Hygiene.</i> <i>Applied Anatomy.</i> <i>Dermatology.</i> <i>Psychiatry.</i> <i>Pediatrics.</i> <i>Neurology.</i> <i>Tropical Diseases.</i> <i>Clinics.</i>

The greater part of the fourth year is devoted to clinical work in the hospitals. During this year, however, general instruction is also given in Mental Diseases, Neurology, Dermatology, Ophthalmology, Laryngology, and Otology. Not less than 1,000 hours of clinical work are required.

## ANATOMY.

W. O. OWEN, M.D.....	Professor of Anatomy
D. KERFOOT SHUTE, M.D.....	Professor of Neuro-Anatomy
J. L. RIGGLES, M.D.....	Associate in Anatomy
HURON W. LAWSON, M.D.....	Associate in Anatomy
WM. CABELL MOORE, M.D.....	Instructor in Anatomy
ALBERT P. TIBBETS, M.D.....	Instructor in Anatomy

During the first year the course in Anatomy is given mainly by practical laboratory work. Each student is required to dissect satisfactorily the lateral half of a cadaver. The dissecting-room work is supplemented by demonstrations, recitations, and lectures, illustrated by lantern slides, models, and diagrams.

Throughout the course every opportunity is taken to emphasize the application of anatomy to the practice of medicine in all its departments.

Osteology and Syndesmology are taught by recitations and demonstrations at the beginning of the course, preparatory to the more advanced studies in Anatomy.

In the second year a course in Topographical Anatomy is given, in which recitations and laboratory demonstrations are used to thoroughly familiarize the student with the subject. In the fourth year a course is given in the general application of Anatomy to Medicine and Surgery. In this way a thorough preparation in general and applied anatomy is given.

*First Year.*

	Hours.			Total.
	Lect.,	Rec.,	Dem.	
Gross Anatomy .....		120		360

*Second Year.*

Topographical Anatomy .....	20	60	80
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*Fourth Year.*

Applied Anatomy .....	16	...	16
Totals.....	156	420	576

**HISTOLOGY AND EMBRYOLOGY.**

H. W. LAWSON, M.S., M.D....Professor of Histology and Embryology

Instruction is given in the care and use of the microscope and in the preparation of tissues for microscopical examination, and a systematic study is made of the minute structure of the tissues and organs of the body, the laboratory work being supplemented by recitations.

*First Year.*

	Hours.			Total.
	Lect.,	Rec.,	Dem.	
Histology .....	32	96		128
Embryology .....	16	48		64
Totals.....	48	144		192

**PHYSIOLOGY.**

SHEPHERD IVORY FRANZ, Ph. D.....Professor of Physiology  
 HENRY R. ELLIOTT, M.D.....Associate in Physiology  
 JOHN P. FILLERBROWN, M.D.....Instructor in Physiology

The course in Physiology consists of lectures, recitations, conferences, demonstrations, and laboratory exercises, during the second half of the first year. The lectures cover all the important facts and theories



regarding bodily functions, and are illustrated by diagrams, models, and prepared specimens. Recitations are held on assigned parts of the textbook. Conferences are held on special physiological topics, and for these exercises each student is required to prepare one thesis during the semester. In the laboratory each student performs a number of experiments on blood, on the circulation, on digestion, on the general functions of muscle and nerve, on the nervous system, and on the special senses. The student is required to make and keep records of the experiments, and these are criticised by the instructors. The class is divided into sections, so that each student receives a large amount of personal attention. In the second year a series of exercises is held in which special emphasis is laid on the relation of normal physiological function to the disturbances of function in disease, and upon the physiological action of drugs. It is intended in this way to bring the work of the Physiological Laboratory and other exercises into closer relation with succeeding courses in Pathology, Therapeutics, and General Medicine.

*First Year.*

	HOURS.			Total.
	Lect.,	Rec.,	Dem.	
Physiology .....	48			240

*Second Year.*

Pathological Physiology .....	...	16	16
Totals.....	48	208	256

**CHEMISTRY.**

CHARLES E. MUNROE, Ph.D.....Professor of Chemistry and Toxicology  
 EDWARD G. SEIBERT, M.D.....Associate in Chemistry  
 THOMAS M. PRICE, Ph.D.....Instructor in Biochemistry  
 OTIS D. SWETT, B.S.....Instructor in Chemistry

**General Chemistry.** A series of illustrated lectures accompanied by recitations, laboratory work, and exercises, on theoretical, inorganic, organic, and technical chemistry.

**Organic Chemistry.** A series of lectures, laboratory work, and recitations on the acyclic and cyclic hydrocarbons and their derivatives, with special reference to physiology and medicine.

**Physiological Chemistry.** A series of lectures, laboratory work, and recitations on the proximate principles of the human body.

**Biochemistry.** A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the

products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vivo*. DR. PRICE.

Clinical Chemistry. A thorough course is given in which material from the University Hospital and Dispensary is utilized to show the practical application of this subject in medicine.

*First Year.*

	HOURS.			Total.
	Lect.,	Rec.,	Dem.	
General Chemistry .....		96		192

*Second Year.*

Physiological Chemistry.....	24	56	80
Physiological Chemistry .....	24	56	80

*Third Year.*

Clinical Chemistry .....	...	24	24
Totals.....	152	208	360

**MATERIA MEDICA AND THERAPEUTICS.**

B. M. RANDOLPH, M.D.....	Professor of Materia Medica and Therapeutics
NOBLE P. BARNES, M.D.....	Associate Professor of Materia Medica and Therapeutics
HENRY R. ELLIOTT, M.D.....	Associate in Pharmacology
WALTER H. MERRILL, M.D.....	Instructor in Electro-Therapeutics

Second year. (1) Lectures upon Materia Medica, including a demonstration of drugs and their preparations. (2) Recitations upon the preparations, their doses, and the various antidotes for poisons. (3) Practical exercises in prescription writing. (4) Demonstrations of drugs.

Third year. (1) Systematic lectures upon the physiological action of drugs and their effects in health and disease, their therapeutic uses, and their methods of administration. (2) Lectures and section demonstrations in electro-therapeutics. (3) Prescription writing, in which the students are given hypothetical cases for which to prescribe, the prescriptions being reported before the class for criticism and discussion.

*Second Year.*

	HOURS.			Total.
	Lect.,	Rec.,	Dem.	
Pharmacology .....	...	64	...	64
Materia Medica and Toxicology.....	160	...	...	160



*Third Year.*

Therapeutics .....	64	...	64
Electro-Therapeutics .....	16	16	32
Totals.....	240	80	320

**DIETETICS.**

J. B. NICHOLS, M.D.....Associate in Medicine

A course of lectures and quizzes on the principles of feeding in health and disease.

*Third Year.*

	Hours.			Total.
	Lect., Rec., Dem.	Lab.		
Dietetics .....	...	32		32

**PATHOLOGY AND BACTERIOLOGY.**

FREDERICK F. RUSSELL, M.D....Professor of Pathology and Bacteriology  
 C. F. CRAIG, M.D....Associate Professor of Pathology and Bacteriology  
 H. J. NICHOLS, M.D.....Associate in Pathology and Bacteriology  
 W. R. BRANDENBURG, M.D....Associate in Pathology and Bacteriology  
 J. S. NEATE, M.D.....Associate in Pathology and Bacteriology  
 J. B. BRIGGS, M.D.....Associate in Pathology and Bacteriology

*Bacteriology.*—The first part of the session is devoted to a laboratory course of instruction in the fundamental principles and methods of pure bacteriology. A thorough drilling is given in the preparation of culture media, in sterilization and disinfection, staining, and in the several methods of differentiating bacteria.

*Pathology.*—The course in Pathology comprises general and special pathology and clinical microscopy. Post-mortem examinations will be utilized when possible. Coincidentally with the above is included the study of the principal pathogenic bacteria: the principles of immunity and serum therapy.

The course of instruction in special pathology will include the study of those processes requiring surgical relief; the healing of wounds and other injuries; of special diseases, neoplasms, and problems of experimental pathology.

The course in Clinical Microscopy comprises the study and examination of various tissues, fluids, and material from the standpoint of diagnosis.





course in history-taking and normal physical diagnosis, and is continued through the third and fourth years. During the latter two years the course consists of lectures, recitations, a study of case histories, clinical conferences, and practical work in the clinical laboratory and at the bedside. The work is made as practical as possible.

The third-year class is divided into small sections, which are required to attend the daily dispensary service in the University Hospital, where they are drilled especially in history-taking and in the technique of practical physical diagnosis.

The fourth-year class is similarly divided into small sections, and these are required to attend the daily ward clinics in the University Hospital and ward clinics in the Garfield Memorial Hospital, Children's Hospital, and the Tuberculosis Hospital of the District of Columbia.

The system of ward clinics to small groups of students affords a most effective method of studying disease and gives to every student an opportunity of following a large assortment of diseases from their commencement to the termination of illness; in no other way is it possible to get a more practical knowledge of the methods of studying disease or a more intimate knowledge of disease itself.

Every patient in the medical wards of the University Hospital is assigned to one, or at most two, senior students, who are required (under proper supervision) to take the history, to make and record a complete physical examination, to determine after due study the nature of the illness (diagnosis), to outline a plan of treatment, and to make daily notes of the progress of the case.

A weekly amphitheater clinic is given to third-year students in a body and a similar clinic to the fourth-year class. A series of special neurological clinics is provided for the senior class at the Government Hospital for the Insane, where there is a great wealth of material.

*Second Year.*

	Hours.			
	Lect.,	Rec.,	Dem.	Clinics.
Physical Diagnosis .....		64	...	64

*Third Year.*

General Medicine .....	128	128	256
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*Fourth Year.*

General Medicine .....	128	192	320
Totals.....	320	320	640

**TROPICAL MEDICINE.**

C. S. BUTLER, M.D., Surg. U.S.N., Professor of Tropical Diseases,  
Instructor in Bacteriology and Tropical Diseases,  
U. S. Navy Medical School

The course in tropical diseases is similar to that given in the Army and Navy Medical Schools, and consists of didactic lectures, quizzes, and laboratory instruction, with particular reference to the parasitic, protozoal diseases common in the tropics and in the southern part of the United States.

*Fourth Year.*

Tropical Medicine, 1 hour, Feb.-May.....	Hours. 16
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**PSYCHIATRY AND CLINICAL NEUROLOGY.**

WILLIAM A. WHITE, M.D., Superintendent of the Government Hos- pital for the Insane.....	Professor of Psychiatry and Clinical Neurology
B. J. LOGIE, M.D.....	Instructor in Neurology
GEO. H. SCHWINN, M.D.....	Instructor in Psychiatry and Neurology
H. W. MILLER, M.D.....	Instructor in Psychiatry and Neurology

A series of lectures and clinics is given upon the subject of insanity in its various forms.

These clinics are given at the Government Hospital for the Insane, which, with its more than two thousand beds, affords one of the largest clinics in this country.

*Fourth Year.*

Psychiatry and Neurology, 1 hour, Jan.-May. Dr. WHITE.....	Hours. 20
Clinical Psychiatry, 1 hour, Jan.-May. Drs. SCHWINN and MILLER.....	20

**PEDIATRICS.**

GEORGE N. ACKER, A.M., M.D.....	Professor of Pediatrics
EDGAR P. COPELAND, M.D.....	Associate in Pediatrics
H. H. DONNALLY, M.D.....	Clinical Associate in Pediatrics
FRANK LEECH, M.D.....	Clinical Associate in Pediatrics
W. J. FRENCH, M.D.....	Instructor in Pediatrics

Didactic and clinical lectures, bedside and dispensary clinics are given upon diseases of infants and children and the importance of the proper management of these diseases by diet and hygiene.

The children's clinic, at the Children's Hospital, affords ample material for practical teaching in this branch.



*Fourth Year.*

	Hours.		
	Lect., Rec., Dem.	Clinica.	Total
Pediatrics .....	32	62	94

**PHYSICAL DIAGNOSIS.**

W. W. WILKINSON, M.D.....Associate in Medicine

A complete course is given in this subject by means of recitations, section work on normal subjects, and with clinical cases which typically represent diseased conditions.

*Second Year.*

	Hours.		
	Lect., Rec., Dem.	Clinica.	Total
Physical Diagnosis.....	32	32	64

**SURGERY.**

WILLIAM CLINE BORDEN, M.D.....Professor of Surgery  
 A. R. SHANDS, M.D.....Professor of Orthopedic Surgery  
 ARTHUR A. SNYDER, M.D.....Clinical Professor of Surgery  
 FRANCIS R. HAGNER, M.D.....Professor of Genito-Urinary Surgery  
 L. A. LA GARDE, M.D.....Professor of Military Surgery  
 CHARLES S. WHITE, M.D.....Associate in Surgery  
 JOHN R. WELLINGTON, M.D.....Clinical Professor of Surgery  
 W. F. M. SOWERS, A.B., M.D.....Associate in Surgery  
 L. H. REICHELDERFER, M.D.....Clinical Professor of Surgery  
 H. W. LAWSON, M.D.....Associate in Surgery  
 I. LAWN THOMPSON, M.D.....Instructor in Surgery  
 CHARLES W. HYDE, M.D.....Instructor in Minor Surgery  
 A. L. HUNT, M.D.....Instructor in Minor Surgery  
 E. T. M. FRANKLIN, M.D.....Instructor in Surgery  
 CLINE CHIPMAN, M.D.....Instructor in Minor Surgery

The principles of surgery are presented in a systematic course of lectures, so that the student may obtain a comprehensive and adequate concept of the science and art of surgery. These lectures are followed by recitations held twice a week, so that the subject-matter may be thoroughly impressed upon the students. The special divisions of surgery are taught by associates and instructors who have made specialties of these branches. The clinical material in the University Hospital and Dispensary, being under the control of the Faculty, is directly used throughout the course to illustrate the subjects taught and to familiarize the students with actual clinical conditions.

Surgical technique is taught by instruction in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the patient, and the sterilization of instruments. Practical instruction is given in the Hospital and Dispensary in the application of splints, bandages, and dressings used in the various surgical diseases and injuries. Thorough instruction and practical demonstrations are given in the administration of anæsthetics.

Clinical teaching is carried on in the University Hospital and Dispensary, and in other hospitals of the city to which members of the Faculty are attached. Amphitheater clinics are given, in which the general practice of surgical diagnosis and operative technique and therapeutic procedure are shown. Senior students are assigned in rotation to individual cases in the wards of the University Hospital.

Ward clinics and bedside instruction are made a prominent part of the course. The class is divided into sections, which are regularly assigned to clinical work in the University Hospital and Dispensary, and in other hospitals.

Practical work is required of each student in the preparation of dressings, sterilization of instruments, etc.

In the fourth year a thorough course is given in surgical anatomy and operative surgery of the cadaver, in connection with which the instructor takes up a general review of anatomy, so that the student may be thoroughly prepared for State Board examinations after graduation.

*Second Year.*

	Hours.			Total.
	Lect., Rec., Dem.	Clinics.		
Minor Surgery .....	64	...		64

*Third Year.*

	Hours.			Total.
	Lect., Rec., Dem.	Clinics.		
General Surgery .....	96	}		
Surgical Pathology .....	24			

*Fourth Year.*

	Hours.			Total.
	Lect., Rec., Dem.	Clinics.		
General Surgery .....	96	}	256	496
Orthopedics .....	24			
Genito-Urinary .....	24			
Gunshot Wounds .....	8			
Totals.....	324	256		580



**SURGICAL PATHOLOGY.**

W. F. M. SOWERS, M.D.....Associate in Surgery

Surgical pathology is taught by thorough instruction in the gross and microscopic appearance of surgical diseases and injuries, and by a systematic course of lectures and quizzes by which the etiology, pathology, symptomatology, and treatment of the surgical affections and their relations to each other are shown.

**ORTHOPEDICS.**

A. R. SHANDS, M.D.....Professor of Orthopedics

A course of lectures and recitations on the pathology, etiology, course, termination, and treatment of chronic joint diseases, with clinical instruction in the application of special apparatus and of plaster of Paris to the correction of deformities.

**GENITO-URINARY DISEASES.**

FRANCIS R. HAGNER, M.D.....Professor of Genito-Urinary Diseases

A thorough course of instruction in genito-urinary diseases is given by lectures, recitations, section clinics, and bedside teaching.

**GUNSHOT WOUNDS.**

LOUIS A. LA GARDE, M.D.....Professor of Military Surgery

The treatment of gunshot wounds with special reference to civil practice is given in a course of lectures and demonstrations, fully illustrated by lantern slides, X-ray photographs, and actual specimens from the Army Medical School.

**OBSTETRICS.**

A. F. A. KING, A.M., M.D., LL.D.....Professor of Obstetrics  
EDWARD E. MORSE, M.D.....Associate in Obstetrics  
JULIAN M. CABELL, M.D.....Associate in Obstetrics

The course in Obstetrics comprises a series of lectures on the science and art of midwifery, together with practical work. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books so as to render them more easily intelligible and to indicate their relative importance. The lectures are illustrated by dia-

grams, models, manikins, natural preparations, and instruments. The class is divided into sections, and each student performs various obstetrical operations upon the manikin and receives practical instruction in external pelvimetry and the methods of abdominal palpation and auscultation during pregnancy. Recitations from text books are held throughout the term. In the fourth year clinical instruction in obstetrics is given, the class being divided into small sections and each section being given bedside instruction and the individual students are required to attend a stated number of cases.

*Third Year.*

	Hours.				Total.
	Lect.	Rec.	Dem.	Clinics.	
Obstetrics .....			128	*	128

*Fourth Year.*

Obstetrics .....	32	*	32
Totals.....	160	...	160

## GYNECOLOGY.

J. WESLEY BOVÉE, M.D.....	Professor of Gynecology
G. BROWN MILLER, M.D.....	Associate in Gynecology
A. L. STAVELY, M.D.....	Clinical Professor of Gynecology
W. A. FRANKLAND, M.D.....	Instructor in Clinical Gynecology
J. LEWIS RIGGLES, M.D.....	Instructor in Gynecology
VERGIL B. JACKSON.....	Instructor in Gynecology
ADAM KEMBLE, M.D.....	Instructor in Gynecology

Gynecology as taught in the third year comprises a course of lectures and text-book recitations. In the fourth year individual students are assigned to cases in the wards of the University Hospital, and the class is taken in sections of one to two students each into the Gynecological Dispensaries for clinical instruction in examinations, diagnosis, and treatment. In larger sections the class attends amphitheater clinics given by the Professors of Gynecology and Clinical Gynecology.

*Third Year.*

	Hours.				Total.
	Lect.	Rec.	Dem.	Clinics.	
Gynecology .....			32	32	64

\* Number of clinic hours cannot be given, but each student is required to attend five cases, exclusive of demonstration work.



*Fourth Year.*

Gynecology .....	32	32	64
Totals.....	64	64	128

**LARYNGOLOGY AND OTOTOLOGY.**

CHARLES W. RICHARDSON, M.D..Professor of Laryngology and Otology  
 O. A. M. McKIMMIE, M.D.....Instructor in Laryngology and Otology  
 H. S. DYE, M.D.....Instructor in Laryngology and Otology  
 E. G. SEIBERT, M.D.....Instructor in Laryngology and Otology

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

*Fourth Year.*

	Hours.
Lectures, 3 hours, Oct.-Nov. Professor RICHARDSON.....	24
Clinics. Professor RICHARDSON, Dr. DYE, Dr. McKIMMIE, and Dr. SEIBERT.....	24

**OPHTHALMOLOGY.**

W. K. BUTLER, M.D.....Professor of Ophthalmology  
 D. KERFOOT SHUTE, A.B., M.D..Associate Professor of Ophthalmology  
 E. G. SEIBERT, M.D.....Instructor in Ophthalmology

The course of lectures on this subject is to direct attention to the elementary principles of the subject. It is not intended to qualify the student as a specialist, but to give him a knowledge of what every general practitioner ought to know. The course is supplemented by clinical instruction.

*Fourth Year.*

	Hours.
Lectures, 1 hour, Oct.-Dec. Professor BUTLER.....	12
Clinics. Professors BUTLER and SHUTE and Dr. SEIBERT.....	12

**DERMATOLOGY.**

R. B. CARMICHAEL, M.D.....Professor of Dermatology  
 C. A. SIMPSON, M.D.....Instructor in Dermatology

The lectures in this course will be principally clinical, supplemented by didactic lectures, illustrated by diagrams, models, and photographic illustrations of disease from life.

*Fourth Year.*

Lectures, 1 hour, Oct.-Dec. Professor YARROW.....	Hours. 14
Clinics, Oct.-Dec. Professors YARROW and CARMICHAEL.....	12

**HYGIENE.**

D. W. PRENTISS, M.D.....Professor of Hygiene

The course in Hygiene is given principally by recitation from a prescribed text-book. Consideration is given to domestic and municipal sanitation and to the principles underlying legislative control of public health.

*Fourth Year.*

Lectures and recitations, 1 hour. Professor PRENTISS.....	Hours. 32
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**MEDICAL JURISPRUDENCE.**

W. C. WOODWARD, M.D.....Professor of Medical Jurisprudence

This course is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

*Third Year.*

Lectures, 1 hour, Feb.-May. Professor WOODWARD.....	Hours. 16
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**CLINICAL FACILITIES.**

The following hospitals are open to the students of this school for clinical study, and are extensively used for that purpose:

University Hospital and the University Dispensary, H St., between Thirteenth and Fourteenth Sts., N. W., and adjacent to the Medical Building.—The Hospital and Dispensary are part of the educational equipment of the University. They are integral parts of the Department of Medicine, are entirely controlled by the Faculty of Medicine, and are used primarily in instructing the students in clinical medicine, surgery, and obstetrics. The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually.

The staff is composed of members of the Faculty of Medicine.

Garfield Memorial Hospital, Florida Ave. and Tenth St., N. W.—This institution has 118 charity beds. Clinics are given regularly



throughout the session by members of the Faculty connected with the visiting staff of the hospital. There is also an out-patient department, giving good opportunities for experience in the practice of physical diagnosis.

Members of the Faculty on the visiting staff: Professors CLAYTOR and MORGAN, Clinical Medicine; Professors SNYDER, WELLINGTON, and REICHELDERFER, Clinical Surgery; Professor STAVELY, Clinical Gynecology; Professor CARMICHAEL, Clinical Dermatology; Professors SHUTE and BUTLER, Clinical Ophthalmology; Professor HAGNER, Clinical Genito-Urinary Surgery; Professor YARROW, Consulting Physician.

**Children's Hospital**, W St., between Twelfth and Thirteenth Sts., N. W.—Regular instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department.

Members of the Faculty on the visiting staff: Professors KING and YARROW, Consulting Physicians; Professor WELLINGTON, Clinical Surgery; Professor ACKER and Drs. COPELAND, DONALLY, and LEECH, Clinical Medicine.

**Emergency Hospital and Central Dispensary**, Fifteenth St. and Ohio Ave., N. W.—This hospital has 36 charity beds, and has a very large out-patient service. The large emergency service gives exceptional facilities in clinical surgery.

Members of the Faculty on the visiting staff: Professor HAGNER, Clinical Genito-Urinary Diseases; Drs. WHITE and JACKSON, Surgery; Professor MORGAN and Dr. ELLIOTT, Clinical Medicine; Professor CARMICHAEL, Clinical Dermatology; Dr. MILLER, Clinical Gynecology; Professor SHANDS, Orthopedics; Professor SHUTE, Ophthalmology; Dr. FRENCH, Pediatrics.

**Columbia Hospital for Women**, Twenty-fifth St. and Pennsylvania Ave., N. W.—This hospital has 68 charity beds for diseases peculiar to women, and 50 charity maternity beds. Both the obstetrical and the gynecological services are particularly good.

Members of the Faculty on the visiting staff: Professor BOVÉE and Dr. MILLER, Clinical Gynecology; Drs. KELLY, CABELL, and RIGGLES, Clinical Obstetrics; Professor SHUTE, Ophthalmology; Professor RUFEN, Visiting Physician.

**Providence Hospital**, Second and D Sts., S. E.—This institution has a large charity service—100 beds for medical and surgical cases and 30 maternity beds.

Members of the Faculty on the visiting staff: Professor RICHARDSON, Clinical Laryngology and Otology; Professor SHUTE, Clinical Ophthal-

mology; Dr. SOWERS, Clinical Surgery; Professor CARMICHAEL, Dermatology; Dr. MORSE, Obstetrics.

**The Government Hospital for the Insane.**—This hospital is maintained by the United States Government. It has 2,500 beds. Clinical instruction in mental diseases is given by the superintendent of the hospital, Professor W. A. WHITE, and Drs. SCHWINN and MILLER. Other members of the Faculty on service at this hospital are Professors FRANZ and BLACKBURN; Professor SHUTE, Consulting Ophthalmologist; Professor RUFFIN, Consulting Physician.

**Episcopal Eye, Ear, Throat, and Nose Hospital, Fifteenth St., between L and M Sts., N. W.**—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital.

Members of the Faculty on its staff: Professor RICHARDSON, Clinical Otology and Laryngology; Drs. McKIMMIE and DYE, Clinical Otology and Laryngology; Professor ACKER, Consulting Physician.

**Lutheran Dispensary, Fourteenth and N Sts., N. W.**—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose.

Members of the Faculty on its staff: Professor BUTLER, Surgeon-in-Charge; Dr. SEIBERT, Ophthalmology; Professor ACKER, Consulting Physician.

**Casualty Hospital, 708 Massachusetts Ave., N. E.**—Opportunities in emergency and dispensary work are offered by this institution.

Members of the Faculty on its staff: Professor ACKER, Consulting Physician; Dr. BARNES, Clinical Medicine; Dr. MEDFORD, Obstetrics.

**Woman's Clinic, 1237 T St., N. W.**—Members of the Faculty on its staff: Professor YARROW, Consulting Physician; Professor SNYDER, Attending Surgeon.

**Tuberculosis Hospital, 14th and Upshur Sts., N. W.**—Members of the Faculty on its staff: Professor CLAYTOR and Dr. RANDOLPH, Clinical Medicine; Dr. REICHELDERFER, Clinical Surgery; Professor RICHARDSON, Ophthalmology.

## CLASSIFICATION AND ADVANCEMENT OF STUDENTS.

Students are divided into four classes, according to their proficiency and the time spent, viz: first year, second year, third year, and fourth year.

Proficiency in all subjects is marked on a scale of 100.



**Examinations** are held at the end of the course in each subject.

In determining the proficiency of a student his laboratory and clinical work, his quiz record, attendance, and result of examination are all considered.

To be **advanced** a student must obtain a general average of 75 or more in all subjects of the year, and must not fail in more than one major or two minor subjects.

Students who obtain a general average of 75 or more, but who fail in not more than one major or two minors, may be advanced **conditioned** and may be permitted at the next examination period a re-examination in the subjects in which they fail, but all conditions must be removed before a student can be again advanced.

Students who fail of advancement or graduation will not be allowed re-examination and must repeat all subjects in which they obtained less than 85 during the year, and pass an examination on all majors of preceding years in which they obtained less than 85 before they can be advanced or graduated. Students who fail to appear at the regular examinations will not be examined until the next regular examination, except by special permission of the Faculty, and in this event a fee of \$5.00 will be charged for each subject. Students who fail to pass satisfactorily their practical laboratory examinations will be required to repeat the laboratory courses and pay the regular laboratory fees. Students will not be admitted to examination unless they have paid all fees due at the time.

A student who has failed of graduation after repeating his final year will not be permitted to maintain his connection with the school.

#### REQUIREMENTS FOR GRADUATION.

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character. He must have complied with the admission and other requirements herein set forth. He must have attended at least 80 per cent of all required instruction during four sessions of eight months each in four separate years, must have satisfactorily completed all his courses and passed all his examinations. He must be present at the time specified for the final examinations, and also at Commencement. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges who desire degrees must spend one year in residence at this school.

Candidates who in their work and examinations attain general averages of 90 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have

inscribed upon their diplomas beneath their degree the words "with distinction."

### SCHOLARSHIPS.

Four scholarships are provided for students.

**CORCORAN SCHOLARSHIPS.**—In recognition of the liberality of the late W. W. Corcoran in endowing the University for the Department of Medicine, the Faculty of Medicine has established in the department four free scholarships.

Two of these scholarships are open for competitive examination to the graduates of the several high schools of the District of Columbia and are awarded to the two students whose averages are highest.

One scholarship is open for competitive examination to graduates of any reputable high school or college who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry, and is awarded to the graduate whose average is highest.

The remaining scholarship is open for competitive examination to students who, though not graduates of any high school or college, give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry, and is awarded to the student whose average is highest.

In establishing these averages professional aptitude and general qualifications are considered along with scholastic ability.

Applications for scholarships should be filed with the Dean not later than May 15. Students holding scholarships pay the matriculation, library, laboratory, and graduation fees, and make the deposit to cover breakage. Holders of scholarships must maintain a satisfactory scholastic average.

### PRIZES.

A prize from the Ordranax Prize Endowment will be awarded under conditions determined by the University authorities.

Professor ACKER gives a prize for the best examination in Pediatrics.

Professor BUTLER gives a prize for the best examination in Ophthalmology.

Professor HAGNER gives a prize for the best examination in Genito-Urinary Diseases.

### HOSPITAL APPOINTMENTS.

Interns are annually appointed in the University Hospital. The externs are appointed from the student body. These appointments are



made upon competitive examinations under conditions determined by the governing authorities of the Hospital. Appointments to similar positions are open to the graduates and undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear, Throat, and Nose Hospital.

#### FEES AND CONTINGENT EXPENSES.

1. Matriculation (payable but once).....	\$5
2. Annual library fee.....	3
3. Tuition fee per annum, including all charges for materials.....	150
4. Graduation fee .....	10
5. Fee for a certificate under the seal of the University.....	2

A deposit of \$10 to cover breakage in laboratory courses and damage to the building or apparatus is required. Any unforfeited balance is returned to the student.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session, when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Dean.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$5
Microscope for Bacteriological, Pathological, and Clinical Microscopy Laboratory use.....	6

Matriculation, library, other special fees and laboratory deposits are due in full in advance. Tuition and laboratory material fees are due in eight monthly instalments in advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Treasurer of the University.

#### WITHDRAWALS.

A certificate of work actually done will be given to any student wishing to withdraw or transfer to some other school during the session. Written notice of such withdrawal or transfer must be filed with the

Dean at the time of requesting the certificate, and the student must have paid all fees and dues chargeable against him up to the end of the quarter in which he withdraws.

**BOARD AND ROOMS.**

A register of approved boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

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For catalogues, application blanks, and further information, address

THE DEAN,  
*Department of Medicine,*  
*The George Washington University,*  
*1325 H Street, N. W.,*  
*Washington, D. C.*



## STUDENTS, 1910-11.

CANDIDATES FOR THE DEGREE OF DOCTOR OF  
MEDICINE.*First Year.*

Baldus, Aloysius A.....	District of Columbia.
Barger, Gervase J. P.....	District of Columbia.
Beals, Frank Lee.....	District of Columbia.
Bloom, Rudolph.....	Virginia.
Bolton, Boyce Richardson.....	District of Columbia.
Bush, Andrew Pleasant.....	West Virginia.
Clar, Benjamin.....	District of Columbia.
Fellers, Ray Leopold.....	Michigan.
Field, Fay.....	Pennsylvania.
Harrison, Forrest Martin.....	Virginia.
Jova, Andres Martin.....	Cuba.
Lowenstam, Sigmund.....	New Hampshire.
McArdle, J. Ford Thompson.....	District of Columbia.
Miller, Thomas, Jr.....	District of Columbia.
Newbold, Thomas P.....	New York.
Payne, John Welford.....	District of Columbia.
Passer, William Frederick, Ph.C.....	Minnesota.
Petrolas, George A.....	Greece.
Peters, David B.....	Virginia.
Porter, Charles Wallace, Phar.D.....	Ohio.
Schurgot, James Adair.....	Pennsylvania.
Sze, Tsannyoen Philip.....	China.
Supplee, Eugene Deyerle.....	Virginia.
Taylor, Chase.....	District of Columbia.
Walton, Robert Ralph.....	Washington.

*Second Year.*

Abaza, Sulieman Hussain.....	Egypt.
Boyd, Francis Marion.....	Kansas.
Cohen, Ralph.....	District of Columbia.
Dembrosky, William.....	Russia.
Dougherty, Bernard Joseph.....	Minnesota.
English, Leonard Harrison.....	Pennsylvania.
English, Merton Alden.....	District of Columbia.
Fortier, Roy McLeay.....	California.
Henneberger, Josiah Baker.....	Maryland.

Riley, Albert Austin.....	Ohio.
Stout, Joseph Duerson, A.B.....	District of Columbia.
Shea, George Marvin Waite.....	Connecticut.
Stallings, Clara Laing.....	Maryland.
Travis, John Randolph.....	Virginia.

*Third Year.*

Bailey, William Otis.....	South Carolina.
Borden, Daniel Le Ray.....	District of Columbia.
Bricker, Sacks.....	District of Columbia.
Calver, George Welnes.....	District of Columbia.
Castell, Louis Bernard.....	District of Columbia.
Corbett, Sewell Munson.....	Virginia.
Cram, Albert Monroe.....	Vermont.
Eckhardt, John Carl.....	District of Columbia.
Fitz-Hugh, William De Hart.....	Virginia.
Gray, Augustus Clagett.....	Maryland.
Hunter, Oscar Benwood.....	Virginia.
Hall, Custis Lee.....	District of Columbia.
Kane, Howard Francis, A.B.....	Maine.
Knott, Charles O.....	Virginia.
Landis, Charles Caldwell.....	California.
La Garde, Louis Anatole, Jr.....	District of Columbia.
Lockett, George Sparr, A.B.....	Virginia.
Mooers, Harold Alonzo.....	District of Columbia.
Milburn, Frank Washington.....	Virginia.
Pagan, Albert Elwood.....	District of Columbia.
Read, Boyd Richard.....	District of Columbia.
Rollings, John Adolph.....	West Virginia.
Scarito, Nicholas J.....	District of Columbia.
Schaub, Gustavus Adolphus.....	Texas.
Sloat, Jesse Irving.....	District of Columbia.

*Fourth Year, Five-Year Course.*

Burnett, Roy Edgar, B.S.....	Oklahoma.
Brewer, Gilbert Roscoe.....	Illinois.
Dyer, John C.....	Ohio.
Ellison, Everett Monroe, A.B., A.M.....	Tennessee.
Fisher, Charles A.....	Pennsylvania.
Hunt, Isaac Burton.....	Tennessee.
Leonard, George Ferree, A.B.....	North Carolina.
Martin, Aaron Wise.....	Virginia.
Pitt, Richard V.....	Virginia.
Read, Effie Alberta, Ph.D.....	Massachusetts.
Ralph, Charles Edward.....	Illinois.



*Fourth Year.*

Arneson, Arne O.....	North Dakota.
Baum, Ewald George.....	Wisconsin.
Brock, Charles Le Roy.....	District of Columbia.
Castleman, Philip.....	Massachusetts.
Cox, Oliver Clemence.....	West Virginia.
Cruz, Adriano Talbos.....	Philippine Islands.
Downey, Alice Winans.....	District of Columbia.
Davidian, Hagop.....	Asia-Minor.
Eisenberg, Arthur Alexander, A.B.....	District of Columbia.
Eppard, George Irving.....	Virginia.
Goss, Audrey.....	Massachusetts.
Hayton, Charles Henry, A.B.....	District of Columbia.
Irmen, Felix Arnold.....	District of Columbia.
Jaeger, Henry William.....	District of Columbia.
McMillan, Walter Alexis.....	South Carolina.
Mitsuyoshi, Fujio, M.D.....	Japan.
Molzahn, Albert John, B.S.....	Nebraska
Oliver, Harry Waterhouse.....	North Dakota.
Paige, Wendell Arthur H.....	Vermont.
Smith, Arthur C.....	New York.
Williams, Robert Cleveland, A.B.....	North Carolina.
Williams, Timothy Graham.....	North Carolina.
Zimmerman, Carl George.....	New York.

GRADUATES, 1910.  
AT COMMENCEMENT, 1910.

Doctor of Medicine.

Floyd Addison Loop, Pennsylvania, "with distinction."  
Laurin Lundy Andrews, A.B., Kansas.  
Harry Denison Chichester, Texas.  
George von P. Davis, Pennsylvania.  
Robert Henry Duenner, Tennessee.  
Watson W. Eldridge, Jr., Michigan.  
Leo Louis Elliott, New York.  
John Paul Frey, District of Columbia.  
George William Hoover, M.S., Oklahoma.  
Frank A. Hornaday, B.S., Texas.  
William H. Huntington, Connecticut.  
Jesse Lee Kinner, New York.  
James Philip Kerby, Maryland.  
George Eliot Klingerman, Pennsylvania.  
Harry Samuel Lewis, District of Columbia.  
Francis Patrick Machler, Illinois.  
John Joseph McLoone, A.B., Phar.D., Pennsylvania.  
James Alan Neville, Nebraska.  
Harry Alexander Peyton, Mississippi.  
Walter Price, District of Columbia.  
Erwin Worth Ross, North Carolina.  
Albert Perkins Tibbets, A.B., New Hampshire.  
Elijah White Titus, Phar.D., Virginia.  
Clifford Ellison Waller, Texas.  
Lyle Charles White, Ohio.  
Clifton Eugene Young, District of Columbia.

AT FALL CONVOCATION, 1910.

Lewis William Fetzer, New York.  
Katherine M. Herring, Iowa.  
Nesmith P. Nelson, Minnesota.

AT MIDWINTER CONVOCATION, 1911.

Audrey Goss, A.B., Kansas.



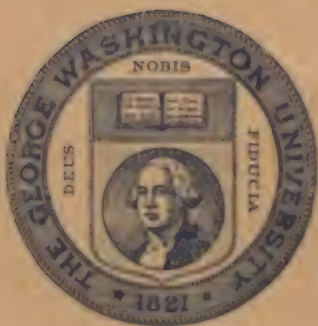


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Bulletin

CATALOGUE NUMBER



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JUNE, OCTOBER, AND DECEMBER.

Entered October 6th, 1904, at Washington, D. C., as second-class  
matter under Act of Congress of July 16th, 1894





The  
George Washington University  
Bulletin

JUNE, 1911

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CATALOGUE NUMBER



WASHINGTON, D. C.  
PRESS OF JUDD & DETWEILER, INC.  
1911

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under Act of Congress of July 16, 1894

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PART I  
GENERAL AND HISTORICAL

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1911.								1912.																			
JULY.								JANUARY.								JULY.											
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3	4	5	6	7	8	9		2	3	4	5	6	7	8		8	9	10	11	12	13	14					
10	11	12	13	14	15	16		9	10	11	12	13	14	15		15	16	17	18	19	20	21					
17	18	19	20	21	22	23		16	17	18	19	20	21	22		22	23	24	25	26	27	28					
24	25	26	27	28	29	30		23	24	25	26	27	28	29		29	30	31	..	..	..	..					
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## UNIVERSITY CALENDAR.

1911.

June 7, *Wednesday*.—University Commencement.

### SUMMER VACATION.

September 27, *Wednesday*.—Academic Year begins in all Departments of the University.

October 11, *Wednesday*.—Stated meeting of the Board of Trustees.

October 20, *Friday*.—Last day for registration for the first term without late-registration fee.

November 23-25, *Thursday to Saturday*, both inclusive.—Thanksgiving recess.

RECESS FROM DECEMBER 23, 1911, TO JANUARY 2, 1912, BOTH INCLUSIVE.

1912.

January 29, *Monday*.—Last day on which dissertations may be presented.

January 10, *Wednesday*.—Stated meeting of the Board of Trustees.

February 12, *Monday*.—Doctorate Disputation.

February 1, *Thursday*.—Second Term begins.

February 20, *Tuesday*.—Last day for registration for the second term without late-registration fee.

April 5-8, *Friday to Monday*, both inclusive.—Easter holidays.

April 9, *Tuesday*.—Davis Prize Speaking.

May 1, *Wednesday*.—Last day on which dissertations may be presented.

May 20, *Monday*.—Doctorate Disputation.

May 21-24, *Tuesday to Friday*.—Examinations for admission.

May 29, *Wednesday*.—Annual meeting of the Board of Trustees.

May 30, *Thursday*.—A holiday in all departments of the University.

June 2, *Sunday*.—Baccalaureate Sermon.

June 5, *Wednesday*.—University Commencement.



### THE LEGAL HISTORY OF THE CORPORATION.

The George Washington University is the successor of "the Columbian College in the District of Columbia," which was chartered by Act of Congress in 1821. The name and title of the Columbian College were in 1873 changed by an Act of Congress, under the terms of which the College was given the name of "the Columbian University." The Columbian University was by Act of Congress in 1904 authorized to change its name, subject to the approval of the Secretary of the Interior and the Commissioner of Education. The Board of Trustees elected to take the name of "the George Washington University," and the name was approved by the Government officials, as required by the statute; the change of name going into effect September 1, 1904. All the Acts of Congress now in force relative to the Columbian College and the Columbian University are therefore parts of the charter of the George Washington University.

The original charter of the Columbian College was as follows:

#### An Act to incorporate the Columbian College, in the District of Columbia.

*Be it enacted, &c.,* That there be erected, and hereby is erected and established, in the District of Columbia, a College, for the sole and exclusive purpose of educating youth in the English, learned, and foreign languages, the liberal arts, sciences, and literature; the style and title of which shall be, and hereby is declared to be, "The Columbian College in the District of Columbia."

SEC. 2. *And be it further enacted,* That the said College shall be under the management, direction, and government of a number of Trustees, not exceeding thirty-one, to be elected triennially, by the contributors to the said College, qualified to vote, in such manner, and under such limitations and restrictions, as may be provided by the ordinances of the College, on the first Monday in May; and that the first Trustees of the said College shall consist of the following persons, viz: Obadiah B. Brown, Luther Rice, Enoch Reynolds, Josiah Meigs, Spencer H. Cone, Daniel Brown, Return J. Meigs, Joseph Gibson, Joseph Cone, Thomas Corcoran, Burgis Allison, Thomas Sewall, and Joseph Thaw: which said Trustees, and their successors, shall forever hereafter be, and they are hereby declared to be, one body politic and corporate, with perpetual succession, in deed and in law, to all intents and purposes whatsoever, by the name, style and title of "The Columbian College in the District of Columbia;" by which name and title, they, the said Trustees, and their successors, shall be competent and capable, at law and in equity, to take to themselves and their successors, for the use of the said College, any estate, in any messuage, lands, tenements, hereditaments, goods, chattels, moneys, and other effects, by gift, grant, bargain, sale, conveyance, assurance, will, devise, or bequest, of any person or persons whatsoever: *Provided,* The same do not exceed, in the whole, the yearly value of twenty-five thousand dollars; and the same messuages, lands, tenements, hereditaments, and estate, real and personal, to grant, bargain, sell, convey, assure, demise, and to farm let,

and place out on interest, for the use of the said College, in such manner as to them, or at least nine of them, shall seem most beneficial to the institution, and to receive the rents, issues, and profits, income and interest, of the same, and to apply the same to the proper use and benefit of the said College: and by the same name to sue, commence, prosecute, and defend, implead and be impleaded, in any courts of law and equity, and in all manner of suits and actions whatsoever, and generally, by and in the same name, to do and transact all and every the business touching or concerning the premises.

SEC. 3. *And be it further enacted*, That the said Trustees shall cause to be made for their use one common seal, with such devices and inscriptions thereon as they shall think proper, under and by which all deeds, diplomas, certificates, and acts of the said College, shall pass and be authenticated; and the same seal, at their pleasure, to break and devise a new one.

SEC. 4. *And be it further enacted*, That the said Trustees, or five of them at least, shall meet at the College, on College Hill, in the said District of Columbia, on the first Monday in March next, for the purpose of concerting and agreeing to such business as, in consequence of this Act, shall be proper to be laid before them at the commencement of the work they have undertaken, and shall have power to adjourn from time to time, as they shall see cause, to any other times or places, for the purpose of perfecting the same. That there shall be a stated meeting of the said Trustees held twice in every year at least, at such place and time as the said Trustees, or a quorum thereof, shall appoint, of which public notice shall be given, after the first meeting, at least twenty days before [the] time of such intended meeting, whenever the President, to be appointed by them, shall deem the business of the institution to require the same, and give due notice thereof, which he is hereby authorized to do; and if, at such stated or occasional meetings, five of the said Trustees shall not be present, those of them who shall be present shall have power to adjourn the meeting to any other day, as fully and effectually, to all intents and purposes, as if the whole number of Trustees for the time being were present; but, if five or more of the said Trustees shall meet at the said appointed times, or at any other time of adjournment, then such five of the said Trustees shall be a board or quorum, and a majority of the votes of them shall be capable of doing and transacting all the business and concerns of the said College not otherwise provided for by this Act; and particularly of making and enacting ordinances for the government of the said College; of electing and appointing the President, Professors, and Tutors, for the said College; of agreeing with them for their salaries and stipends, and removing them for misconduct, or breach of the laws of the institution; of appointing committees of their own body to carry into execution all and every the resolutions of the Board; of appointing a President, Treasurer, Secretary, stewards, managers, and other necessary and customary officers, for taking care of the estate and managing the concerns of the corporation; and, generally, a majority of voices of the board, or quorum of the said Trustees, consisting of five persons at least, at any semi-annual, occasional, or adjourned meeting, after notice given as aforesaid, shall determine all matters and things (although the same be not herein particularly mentioned) which shall occasionally arise, and be incidentally necessary to be determined and transacted by the said Trustees: *Provided always*, That no ordinances shall be of force which shall be repugnant to this charter, or to the laws of the District of Columbia.



SEC. 5. *And be it further enacted*, That the Head or Chief Master for the said College shall be called and styled "The President," and the Masters thereof shall be called "Professors and Tutors;" but neither President, Professors, or Tutors, while they remain such, shall ever be capable of the office of Trustee.

SEC. 6. *And be it further enacted*, That the President, Professors, and Tutors, or a majority of them, shall be called and styled "The Faculty of the College," which Faculty shall have the power of enforcing the rules and regulations adopted by the Trustees for the government of the pupils, by rewarding or censuring them, and, finally, by suspending such of them as after repeated admonitions shall continue disobedient and refractory, until a determination of a quorum of the Trustees can be had; and of granting and confirming, by and with the approbation and consent of a board of the Trustees, signified by their mandamus, such degrees in the liberal arts and sciences, to such pupils of the institution, or others, who, by their proficiency in learning, or other meritorious distinction, they shall think entitled to them, as are usually granted and conferred in colleges; and to grant, to such graduates, diplomas or certificates, under their common seal, and signed by the Faculty, to authenticate and perpetuate the memory of such graduation.

SEC. 7. *And be it further enacted*, That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as President, Professor, Tutor, or pupil, be refused admittance into said College, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion.

SEC. 8. *And be it further enacted*, That no misnomer of the said corporation shall defeat or annul any gift, grant, devise, or bequest, to or from the said corporation: *Provided*, The intent of the parties shall sufficiently appear upon the face of the gift, grant, will, or other writing, whereby any estate or interest was intended to pass to or from the said corporation.

SEC. 9. *And be it further enacted*, That the constitution of the said College, herein and hereby declared and established, shall be, and remain, the inviolate constitution of the said College forever; and the same shall not be altered, or alterable, by any ordinance or law of the said Trustees: *Provided*, That it may be lawful for the Congress of the United States to revoke and repeal this Act, at any and at all times whenever they shall think fit so to do.

SEC. 10. *And be it further enacted*, That it shall be the duty of the said Board of Trustees to keep a regular book or journal, in which shall be entered, under their direction, besides an account of all their ordinary acts and proceedings, all the by-laws, ordinances, rules, and regulations, which may be adopted by the said Board, for their own government, and for the government of the institution; also, a schedule of all the property and effects, real, personal, or mixed, which shall or may be vested in the said Trustees, for the use of the said College, by virtue of any gift, grant, bargain, sale, will, or otherwise, together with annual statements concerning the accounts and finances of the institution. That it shall, moreover, be the duty of the said Trustees, to cause to be enrolled, in the said book or journal, the names of all the contributors to the institution qualified to vote for Trustees, with their respective places of residence; and the said book or journal shall, at all times be open to the inspection or examination of the Attorney General of the United States; and, when required by either House of Congress, it shall be

the duty of said Trustees to furnish information respecting their own conduct, the state of the institution, and of its finances, which shall or may be so required.

SEC. 11. *And be it further enacted*, That in case any vacancy or vacancies shall happen in the Board of Trustees aforesaid by death, inability, resignation, or otherwise, at any time between the stated or triennial elections, that then it shall and may be lawful for the other Trustees, or any five of them, to proceed, at any subsequent meeting after the happening of such vacancy or vacancies, to choose, by ballot, any suitable person or persons to fill the same.

SEC. 12. *And be it further enacted*, That the employment or application of the funds or income of the said corporation, or any part thereof, for any purpose or object other than those expressed and defined in the first section of this Act, or the investment thereof in any other mode than is described and provided in the second section thereof, shall be deemed and taken to be a forfeiture of all the rights and immunities derived from this Act, and the same shall, thenceforth, cease and become null and void.

Approved, February 9, 1821.

By Act of Congress of July 14, 1832, there were donated to the Columbian College Washington city lots to the value of twenty-five thousand dollars; the Act providing that the fund arising from the proceeds of the sale of the lots should constitute an endowment fund for the support of professorships. By Act of February 28, 1839, permission was granted to the College to use seven thousand dollars of the fund for the payment of its debts.

By Act of Congress of February 21, 1871, a form of government by an elected Governor and Legislative Assembly was established for the District of Columbia, and on July 25, 1871, the Legislative Assembly passed the following statute:

**An Act for the relief of the Columbian College, in the District of Columbia.**

*Be it enacted by the Legislative Assembly of the District of Columbia*, That the Columbian College, in the District of Columbia, chartered by and organized and acting under the Act of Congress approved February nine, eighteen hundred and twenty-one, may, from the proceeds of any sale of its property, apply such sum as may be needful to pay its present indebtedness and place its libraries, buildings, and apparatus of instruction in good condition, and execute all deeds needful to quiet the title of property already sold.

SEC. 2. *And be it further enacted*, That the Trustees of said College elected in May last shall constitute the corporation of said College until their successors in office shall be chosen and qualified as hereinafter provided, and may, until then, as vacancies occur in their number, temporarily fill them by the election of fit persons residing in the District of Columbia.

SEC. 3. *And be it further enacted*, That the said Trustees shall meet in the Law Building of said College at noon, on the twenty-fifth day of June, eighteen hundred and seventy-two, for the purpose of choosing, and shall then and there, or at the time and place to which said meeting



may be adjourned, elect thirteen Trustees and thirteen Overseers, who shall, upon their election, constitute the College corporation, and they and their successors shall thenceforward be, and be known and recognized as, the Columbian College in the District of Columbia.

SEC. 4. *And be it further enacted*, That the Trustees chosen at the said meeting in June, eighteen hundred and seventy-two, or who may thereafter be chosen, shall be residents of the District of Columbia, and that at said meeting, and at any annual meeting of Trustees and Overseers to be thereafter held in said City of Washington on the Tuesday next preceding the last Wednesday in June, annually, the Trustees and Overseers in convention assembled shall fill vacancies in their Board, and shall, by ballot, elect from among the Trustees two suitable persons, one to be President and the other to be Treasurer and Secretary of said corporation and of the Board of Trustees, and shall establish ordinances and by-laws, or alter or repeal the same; and also frame laws and regulations for the College Faculty and students in all the departments thereof, and by ballot elect such teachers, tutors, professors, lecturers, and President, and with such salaries and duties as said corporation may deem proper.

SEC. 5. *And be it further enacted*, That at said annual meetings not less than seven Trustees and three Overseers shall constitute a quorum for the transaction of any business except adjournment, and adjournment may be made by any number present: *Provided*, That a final adjournment shall not be delayed beyond one week after the time fixed for the annual meeting.

SEC. 6. *And be it further enacted*, That during the interval between said annual meeting the Trustees shall, as now, hold semi-annual, quarterly, monthly, and occasional meetings to fill temporarily, as the case may require, vacancies in the Faculty or in their own Board, and with all their present powers as modified by this Act, subject to the ordinances and by-laws of the corporation; but no real estate or other property of said corporation shall, after the twenty-fifth day of June, eighteen hundred and seventy-two, be disposed of by the Trustees, except by vote of the corporation or in pursuance of its ordinances.

Approved, July 25, 1871.

This Act of the Legislative Assembly of the District was confirmed by Congress in 1873, and by the same statute the College was given the name of "the Columbian University." This Act was as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbia[n] College, in the District of Columbia.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That the act to incorporate the Columbia[n] College in the District of Columbia, approved February ninth, eighteen hundred and twenty-one, be, and the same is hereby, so modified that said corporation shall be hereafter known and called by the name of the Columbia[n] University, and in that name shall take, hold and manage all the estate and property now belonging to said College, or that may hereafter be conveyed, devised, or bequeathed to said corporation by its original name; that the restriction of the yearly value of the property of the said corporation to the sum

of twenty-five thousand dollars be, and the said restriction is hereby, repealed; and that said corporation may increase the number of its Overseers to twenty-one, and the number of its Trustees to twenty-one, exclusive of the President of the Faculty, who shall be, *ex officio*, a Trustee of said corporation.

SEC. 2. That the Act for the Relief of the Columbian College in the District of Columbia enacted by the Legislative Assembly of said District, and approved July twenty-fifth, eighteen hundred and seventy-one, be, and the same is hereby, approved and confirmed: *Provided*, That this Act nor the said Act of the Legislative Assembly of the said District, shall be so construed as to authorize the said Columbian University to sell, or use the proceeds of any sale of land granted by Congress to said institution for any purpose other than that expressed in the Act of Incorporation and the Act granting any such land or real estate, or contrary to any will, devise or grant of any land or real estate heretofore or hereafter made, by any person or persons to said institution.

Approved, March 3, 1873.

By the Act of Congress of May 31, 1878, it was provided that the annual meeting of the corporation might be held either in May or June, and by the Act of January 14, 1893, it was provided that the Secretary and the Treasurer might be elected from the Trustees or not, as the Board of Trustees might deem proper, and that it should not be necessary that both offices should be held by one person.

In 1898 Congress amended the charter by an Act as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled*, That the Columbian University, on and after the first day of June, eighteen hundred and ninety-eight, shall be under the management and control of a Board of Trustees, consisting of twenty-two members; the President of the University shall be *ex officio* a member of said Board, and the remaining twenty-one shall be divided into three classes with seven members in each class; a majority of said Board shall be residents of the District of Columbia, and seven members shall constitute a quorum for the transaction of business. That on or before the thirty-first day of May, eighteen hundred and ninety-eight, a meeting of the Trustees and Overseers of said University shall be held, and said meeting shall elect twenty-one Trustees, seven of whom shall be designated to serve from the first day of June, eighteen hundred and ninety-eight, until the annual meeting in eighteen hundred and ninety-nine; and seven from the same date until the annual meeting in nineteen hundred; and seven until the annual meeting in nineteen hundred and one. Two-thirds of said Trustees, and also the President of the University, shall be members of regular Baptist churches; that is to say, members of churches of that denomination of Protestant Christians now usually known and recognized under the name of the regular Baptist denomination; said Trustees so elected shall serve for the periods mentioned and until their successors are elected.



That on the first day of June, eighteen hundred and ninety-eight, the terms of office of the present Trustees and Overseers shall cease and determine, and thereupon the control and management of said University, its property and trusts, shall vest in the Board of Trustees elected as hereinabove provided and their successors.

SEC. 2. That at the annual meeting in eighteen hundred and ninety-nine, and annually thereafter, there shall be elected by the Board of Trustees seven Trustees to fill the places of the class whose terms of office expire; and the Board of Trustees may prescribe in a by-law the mode of nominating persons for election as Trustees. A failure to elect Trustees at the annual meeting shall not create vacancies in the Board, but such election may be had and vacancies occurring during the year may be filled for the unexpired term by the Board at any general or special meeting.

SEC. 3. That the Board of Trustees provided for herein shall have, and they are hereby given, full power and authority to appoint and remove any and all officers, professors, lecturers, teachers, tutors, agents, and employees who are now or may hereafter be elected or appointed; they may, by a vote of two-thirds of all the Trustees constituting said Board, adopt and change by-laws for the conduct of the business and educational work of said University; they may appoint an Executive Committee composed of Trustees, designate the number and Chairman thereof, with such powers and authority as are usually exercised by an Executive Committee, and which shall be conferred by the Board, subject always to the control of the Board of Trustees; they may create and establish schools and departments of learning to be connected with and become a part of said University; they may receive, invest, and administer endowments and gifts of money and property for the maintenance of educational work by said University, and by any department and chair thereof now established or which may hereafter be created or established by said University; and they shall have all the powers and authority heretofore granted to and vested in the Trustees and Overseers of said University.

SEC. 4. That the annual meeting of the Board of Trustees shall be held in the City of Washington, District of Columbia, on the Wednesday nearest the first day of June in each year; two other stated meetings shall be held on the second Wednesday of October and January in each year, and special meetings may be called by the President of the University or by the Executive Committee or by seven members of the Board of Trustees upon such notice and at such hour and place as may be designated in the by-laws; at all meetings any business necessary to be transacted may be considered and acted upon, and any meeting may be adjourned from time to time by the Trustees present, whether constituting a quorum or not, notice of such adjournment to be given, as of called meetings, to those Trustees not present.

SEC. 5. That the terms of office of the President of the University, the Treasurer and other officers, professors, and lecturers, and the employment of agents and employees, and the title to all the property and rights in and management of the endowment funds of the University shall not be affected by the change of management herein provided for, but they shall continue and be subject to the control and management of the Board of Trustees hereby created the same as they are now subject to the control and management of the corporation.

SEC. 6. That all acts and parts of acts inconsistent with the provisions of this Act are hereby repealed.

Approved, March 18, 1898.

In 1904 Congress passed an Act restoring the non-denominational character of the institution and permitting the change of its name. This Act and the certificate of change of name were as follows:

**An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof.**

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,* That the Act to incorporate the Columbian College, in the District of Columbia, approved February ninth, eighteen hundred and twenty-one, and the amendatory Act approved March eighteenth, eighteen hundred and ninety-eight, be, and the same are hereby, amended by repealing and striking out of the said charter the following words in lines twenty to twenty-five in section one of the said amendatory Act of March eighteenth, eighteen hundred and ninety-eight, namely, "Two-thirds of said Trustees, and also the President of the University, shall be members of regular Baptist churches; that is to say, members of churches of that denomination of Protestant Christians now usually known and recognized under the name of the regular Baptist denomination."

SEC. 2. That section thirteen of the original charter of February ninth, eighteen hundred and twenty-one, which provides "That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as President, Professor, Tutor or pupil, be refused admittance into said College, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion," be, and the same is hereby, re-enacted and shall be hereafter in full force as a part of said charter.

SEC. 3. That power is hereby given to the Board of Trustees of said University to change the name of said University at any regular meeting by a vote of not less than two-thirds of the total number of members of the Board, as prescribed by the charter, subject to the approval of the Secretary of the Interior and the Commissioner of Education. That upon said action being taken a certificate, under the seal of the University, stating the name adopted and the date when the name shall go into effect not less than thirty days nor more than six months from the date of its adoption, together with the fact that said name has been adopted as herein prescribed, shall be filed in the office of the Recorder of Deeds of the District of Columbia, and thereupon, upon the date specified for the name to go into effect, the University shall be known and designated by the name adopted, and by said new name the said University shall be vested with and convey its real estate, hold, control, and administer endowments and gifts of money and property heretofore and hereafter made for the maintenance of its educational work, and do and perform all acts which it now has the power to do under its said charter. Such change of name shall not in any other way change, affect, or modify in any degree the rights, privileges, obligations, and powers of the said University under the charter of February ninth, eighteen hundred and twenty-one, and the amendatory Acts thereto.

SEC. 4. That all Acts and parts of Acts inconsistent with this Act are hereby repealed.

Approved, January 23, 1904.



**Certificate of Change of Name of the Columbian University to  
"The George Washington University."**

DISTRICT OF COLUMBIA,  
*City of Washington:*

The Columbian University, in accordance with the Act of Congress approved January 23, 1904, does hereby certify that, at the regular meeting of its Board of Trustees, duly held on the eighth day of June, 1904, at which meeting there were present more than two-thirds of the total number of members of the Board, it was unanimously resolved that, subject to the approval of the Secretary of the Interior and the Commissioner of Education, prescribed by said Act of Congress, the name of this University be changed to that of The George Washington University, the same to go into effect on the first day of September, A. D. 1904.

And it is hereby further certified, that on the twentieth day of June, A. D. 1904, the Secretary of the Interior and the Commissioner of Education duly approved in writing said change of name, which said written approval is hereto attached and made a part hereof.

In testimony whereof, said Columbian University has given this its certificate under its corporate seal, at the City of Washington, D. C., on the twenty-first day of June, A. D. 1904.

Attest:

JOHN B. LARNER,  
*Secretary.*

(Corporate Seal.)

CHARLES W. NEEDHAM,  
*President.*

UNITED STATES OF AMERICA,  
DEPARTMENT OF THE INTERIOR,  
WASHINGTON, D. C., June 20, 1904.

Pursuant to section 882 of the Revised Statutes, I hereby certify that the annexed paper is a true copy of the original as it appears upon the files of the Department.

In testimony whereof, I have hereunto subscribed my name, and caused the seal of the Department of the Interior to be affixed, the day and year first above written.

E. A. HITCHCOCK,  
*Secretary of the Interior.*  
W. B. A.

(Seal of the Department of the Interior.)

Whereas by Act of Congress approved January 23, 1904, the Columbian University was authorized to change its name, subject to the approval of the Secretary of the Interior and the Commissioner of Education;

And whereas it has been made satisfactorily to appear to us that, at the regular meeting of the Board of Trustees of said University, held on the eighth day of June, A. D. 1904, at which meeting there were present more than two-thirds of the total number of members of said Board, it was unanimously resolved to change the name of said University to that of The George Washington University, the same to go into effect on the first day of September, A. D. 1904;

Now, therefore, this is to witness that, pursuant to said Act of Congress, we do hereby, this twentieth day of June, A. D. 1904, approve said change of name.

E. A. HITCHCOCK,  
*Secretary of the Interior.*  
W. T. HARRIS,  
*Commissioner of Education.*

(Seal of the Department of the Interior.)

In 1905 a further amendment to the charter was made, as follows:

An Act supplemental to the Act of February ninth, eighteen hundred and twenty-one, incorporating the Columbian College in the District of Columbia, and the Acts amendatory thereof.

*Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That The George Washington University shall have, and is hereby given, power to increase the number of its Trustees from time to time, by a two-thirds vote of the whole number of the Trustees at the time such vote is taken, to a number not exceeding forty-five. In case of the increase of the number of Trustees a certificate, stating the number of the Board and the time when it shall go into effect and that the action so taken was by a two-thirds vote as required by this Act, shall be filed with the Recorder of Deeds of the District of Columbia, and upon and after the date named the Board shall consist of the number of Trustees, stated in such certificate, and said Board may also appoint a Board or Boards of Visitors for any department or departments of educational work carried on by the University, such Boards of Visitors to be advisory only.*

SEC. 2. That by and with the consent of said University, Colleges may be organized hereunder for the purpose of carrying on, in connection with the University, special lines of educational work in the arts, sciences, and liberal and technical knowledge, such Colleges to be educationally a part of the system of the University, but upon independent financial foundations, and to this end any five or more persons desirous of associating themselves for the purpose of establishing a College hereunder, may make, sign, and acknowledge before any officer authorized to take acknowledgment of deeds in the District of Columbia, and with the assent of the University in writing, file in the office of the Recorder of Deeds of the said District a certificate in writing, in which shall be stated: First, the intention to organize a corporation under this Act and the assent of the University thereto; second, the name or title by which the College shall be known in law; third, the names of the Trustees constituting the first Board, and such Trustees may be divided into three classes, the term of office of one class expiring annually; fourth, the manner of nominating and electing successors to said Trustees; fifth, the branch or branches of literature, arts, sciences, liberal or technical knowledge proposed to be taught; sixth, that the highest officer of said College shall be a Dean, the Dean and members of the Faculty to be members of the Educational Councils of the University in accordance with the rules governing the University; seventh, that all degrees shall be bestowed by the



University; eighth, that in all financial and legal responsibility the College shall be an independent organization. Upon filing such certificate the Trustees named therein and their successors shall be a body politic, incorporated by the name and style stated in the certificate, and by that name and style shall have perpetual succession in association with the University, with power in the College to sue and be sued; plead and be impleaded; to acquire, hold, and convey property in all legal ways; to receive by gift, devise, or otherwise, and hold, control, and administer endowments and gifts of money and property thereafter made to it for the maintenance of its educational work; to have and use a common seal, and to alter and change the same at pleasure; to make and alter from time to time such by-laws, not inconsistent with the Constitution of the United States or the laws in force in said District or the laws of the University regulating the conduct of educational work, as may be deemed necessary for the government of the College, but said College shall not confer academic or honorary degrees; such College shall hold the property of the institution and all moneys and property conveyed to it by purchase, gift, conveyance, will, devise, or bequest solely for the purposes of the educational work specified in said certificate; the Trustees of such College shall faithfully apply all funds collected or received and the proceeds thereof belonging to the institution, according to their best judgment, in purchasing lands and erecting buildings, supporting necessary officers, instructors, and servants, and procuring all equipment, educational and otherwise, necessary to carry on the work of the College.

SEC. 3. That said University may enter into affiliated agreements with any institutions of learning outside of the District of Columbia, for the purpose of giving to students of such institutions the educational facilities of said University and the Departments of the Government in the City of Washington which are by law open to students, upon such terms as are mutually agreed upon by the said University and the affiliated institutions.

Approved, March 3, 1905.

Under section 2 of this amendment, two Colleges have been organized to carry on educational work forming a part of the regular undergraduate curriculum—The Columbian College and The Washington College of Engineering. This new Columbian College was first organized in 1904,—contemporaneously with the change of name of the University—under the general educational incorporation act of the District. In 1905, the new Columbian College was reincorporated under section 2 of the amendment of 1905. The new Columbian College and the Washington College of Engineering have always remained inactive, and have been in fact superseded by the establishment of the College of Arts and Sciences and the College of Engineering and Mechanic Arts, which are Departments of the University.

Under section 2 of the Act of 1905, there now exist two colleges which are doing special educational work and which are in active operation—the National College of Pharmacy, organized in 1905, and the College of Veterinary Medicine, organized in 1908. The financial

affairs of these Colleges are separate from those of the University, and are managed by their separate Boards of Trustees. The Faculties of these Colleges are also appointed by their respective Boards of Trustees. The connection between these Colleges and the University consists in the fact that their Deans are members of the President's Council, and that the Board of Trustees of the University confers degrees for the work done in these Colleges.

By resolutions of the Board of Trustees of the University of May 6, 1909, and January 12, 1910, provision was made for the nomination by the Alumni of two Alumni Trustees each year. In the spring of 1910, this plan was put in operation, and since then the two persons nominated as Alumni Trustees have been elected to membership on the Board.



## BY-LAWS OF THE GEORGE WASHINGTON UNIVERSITY.

## ARTICLE I.

*The President of the University.*

SECTION 1. The President of the University shall hold office without limit of time, until his resignation be accepted, or he be removed from office by the Board of Trustees; he shall be the executive head of the University and of all its departments, exercising such supervision, direction, and control as will promote the efficiency of every department; he shall be responsible, under the supervision of the Board of Trustees, for the discipline of the University; he shall preside at the meetings of the Faculties, and be the official medium of communication between the Faculties and the Board of Trustees, and between the students of the University and the Board of Trustees; he shall recommend to the Board of Trustees appointments to the several Faculties; he shall be responsible for carrying out such measures concerning the internal administration of the University as the Board of Trustees may enact. He shall make a yearly report to the Board of Trustees at the January meeting concerning the state of the University. He shall control the expenditure and administration of the yearly budget when formally adopted by the Board of Trustees.

## ARTICLE II.

*Board of Trustees.*

SECTION 1. No member of the teaching staff of the University except the President of the University, or of the teaching staff of any college incorporated under the charter of the University, while he remains such, shall be capable of holding the office of Trustee of the University.

SEC. 2. At the annual meeting of the Board after the election of Trustees, the Board shall elect by ballot from among their number a Chairman and Vice-Chairman of the Board to serve until the next annual meeting and until their successors are elected and qualified. The Chairman of the Board, and in his absence the Vice-Chairman, shall preside at all meetings of the Board of Trustees.

SEC. 3. At the annual meeting after the election of Trustees the Board shall elect by ballot the following officers, to serve until the next annual meeting and until their successors are elected and qualified: a Secretary, a Treasurer, an Auditor, and a Counsel of the University.

SEC. 4. In the event of a failure for any reason so to elect either or all of the said officers, or in case of any vacancy from any cause, then an election may be held for the unexpired term at a meeting called for that purpose.

SEC. 5. The annual meeting of the Board of Trustees shall take place on the Wednesday nearest the first day of June of each year.

SEC. 6. Stated meetings of the Board shall be held on the second Wednesdays of October and January.

SEC. 7. Notice of all stated meetings shall be mailed by the Secretary of the University to each member of the Board at least five days previous to the time of such meetings.

SEC. 8. Special meetings may be called at any time by the President of the University, the Executive Committee, or by seven members of the Board of Trustees. The Secretary shall issue the notices of such meetings.

SEC. 9. The call for special meetings shall state the nature of the business to be considered, and shall be mailed at least two days before the meeting is to be held.

SEC. 10. Seven members of the Board of Trustees shall constitute a quorum for the transaction of any business.

### ARTICLE III.

#### *Executive Committee.*

SECTION 1. There shall be an executive committee of seven members of the Board of Trustees, of which the President of the University shall be a member *ex officio*. The other members of the Committee shall be elected by ballot at the annual meeting, and shall serve until their successors are elected. The Board shall designate one of the members of the Committee to act as Chairman.

SEC. 2. In case of inability to act on the part of any member of the Committee his place may be filled by the Board of Trustees.

SEC. 3. Four members of the Committee shall constitute a quorum for the transaction of business.

SEC. 4. The Committee is authorized to transact such business as may require attention between the regular meetings of the Board of Trustees; but the Chairman of the Committee shall make a report at each stated meeting of the Board on the proceedings of the Committee during the intervening period, and at any meeting of the Board, if any member of the Board shall request that the report of the proceedings of any meeting or meetings of the Committee be read, the same shall be read by the Secretary.

SEC. 5. Regular meetings of the Committee shall be held during the academic year monthly, on the second Tuesday of the month, and special meetings may be called by the Secretary whenever requested by the Chairman or any two members of the Committee.

SEC. 6. In case of inability to act on the part of the Chairman of the Committee, the Committee may appoint a temporary chairman for the meeting.



## ARTICLE IV.

*Chairman of the Executive Committee.*

SECTION 1. It shall be the duty of the Chairman of the Executive Committee to have the superintendence of the business affairs of the corporation and to keep the Executive Committee and the Board of Trustees informed concerning the same, and to see that all matters of business relating to the corporation are regularly presented to the Executive Committee and the Board for action.

## ARTICLE V.

*Standing Committees.*

SECTION 1. At the annual meeting there shall be appointed a Committee of three members for each school or department of the University, who shall visit and inspect the conditions and conduct of the school or department and make a written report thereon to the stated meetings of the Board of Trustees. Provisional appointments to any Faculty may be made by the President after consideration of the nomination of the Dean of the Faculty, and, with the approval of the committee of the school immediately concerned, the appointment to hold good until the next meeting of the Board.

## ARTICLE VI.

*The Secretary of the University.*

SECTION 1. The Secretary of the University shall as such attend and keep minutes of all meetings of the Board of Trustees, the Executive Committee, the educational councils and faculties, as may by resolution of the Board be required to keep records. He shall give to any meeting at which he is entitled to be present any information concerning University affairs which he may have and which may be proper to be brought before such meeting. He shall have the custody of all the files and records of the University proper to his office; he shall have the custody of the corporate seal of the University, and shall affix it to corporate acts authorized by the Board of Trustees or the Executive Committee, and he shall generally do and perform such administrative duties as may be assigned him by the President from time to time not inconsistent with the by-laws.

## ARTICLE VII.

*The Treasurer of the University.*

SECTION 1. The Treasurer shall give a bond or shall be bonded in a surety company, at the expense of the University, for the faithful per-

formance of his duties in such sum and with such sureties as shall be approved by the Board of Trustees.

SEC. 2. He shall keep all the funds of the University in such bank or banks as the Board of Trustees shall designate; he shall keep the trust funds, and the full account thereof, separate from the current or general funds and accounts of the University; he shall make monthly statements, showing the current financial operations and the condition of the trust funds and other invested funds to the Executive Committee; he shall make a full report annually to the Board of Trustees as specified in Article XI, and he shall at such other times make such reports as the Trustees may require.

SEC. 3. He shall make payments only by checks upon the bank countersigned by the President of the University, or in his absence by the Secretary, and only for investments, salaries, bills, and expenses authorized by the Board of Trustees or the Executive Committee, provided, however, that when the Treasurer is absent or incapacitated, or when the office of Treasurer is vacant, or when the President and Secretary are both absent or incapacitated, or in any other emergency, the Executive Committee may by resolution make special and temporary arrangements for the signing or countersigning of checks.

#### ARTICLE VIII.

##### *The Auditor of the University.*

SECTION 1. The Auditor of the University shall make three audits each year of the books and accounts of the Treasurer. The fiscal year shall end at midnight on June 30th of each year, and the accounts shall be audited as of December 31st, March 31st, and June 30th at midnight. The respective audits shall be completed before February 1st, May 1st, and August 1st in each year.

SEC. 2. A corporation may be elected by the Board of Trustees as the Auditor of the University.

#### ARTICLE IX.

##### *The Counsel of the University.*

SECTION 1. The Counsel of the University shall render opinions to the President, the Board of Trustees, or to the Executive Committee, when requested, upon legal questions arising in the management of the educational or business affairs of the University, and shall represent the University in all legal proceedings prosecuted by or against the University. The Counsel of the University may be a member of the Board of Trustees.



## ARTICLE X.

*Committee on Catalogue.*

SECTION 1. In June of each year the annual catalogue of the University shall be prepared by a committee consisting of the President of the University as Chairman, the Secretary of the University, and three members of the Faculty of the University appointed by the President. The catalogue shall be published annually in pamphlet form. Each annual catalogue shall contain the charter and by-laws of the University.

## ARTICLE XI.

*Annual Financial Report.*

SECTION 1. Between July 1st and October 1st in each year there shall be prepared by the Treasurer a financial report showing in detail the financial condition of the University during the previous year, which financial report shall be certified by the Auditor to be correct. This report shall be filed with the Secretary on or before October 1st, and shall be laid before the Board of Trustees at their October meeting, and when approved by the Board of Trustees shall, with any modifications ordered by them and assented to by the Treasurer and Auditor, be printed by the University in pamphlet form.

## ARTICLE XII.

*Sale of Land and Other Assets.*

SECTION 1. Real estate and other securities of the University shall not be sold or disposed of except by direction of the Board of Trustees.

SEC. 2. All deeds and conveyances of real estate belonging to the University shall be signed by the President of the University and the Secretary, and the same shall be acknowledged, attested, and the seal of the University attached thereto by the Secretary.

## ARTICLE XIII.

*Amendments.*

SECTION 1. These by-laws may be amended or repealed at any meeting of the Board by a vote of two-thirds of all the members of the Board.

## ARTICLE XIV.

*Former By-Laws Repealed.*

SECTION 1. All by-laws heretofore enacted are hereby repealed.

## THE BOARD OF TRUSTEES.

CHARLES HERBERT STOCKTON, LL.D.,  
President of the University.

1912.

GIST BLAIR, A.B., LL.B., Union Trust Building.  
LEWIS FLEMER, Phar.D., 701 Maryland Avenue, N. E.  
JOHN JAMES HEMPHILL, A.M., Washington Loan & Trust Building.  
ABRAM LISNER, 1723 Massachusetts Avenue, N. W.  
THEODORE WILLIAMS NOYES, A.M., LL.M.,  
1101 Pennsylvania Avenue, N. W.  
HENRY CLEVELAND PERKINS, 1701 Connecticut Avenue, N. W.  
MAXWELL VAN ZANDT WOODHULL, A.M., 2033 G Street

1913.

HENRY GUSTAV BEYER, M.D., Ph.D., 1725 H Street  
ALDIS BIRDSEY BROWNE, LL.B., 1419 F Street, N. W.  
\*JOHN JOY EDSON, LL.B., Washington Loan & Trust Company.  
SAMUEL HARRISON GREENE, A.M., DD., LL.D., 1320 Q Street, N. W.  
ARCHIBALD HOPKINS, A.M., LL.B., 1826 Massachusetts Avenue, N. W.  
WILLIAM ANDREW MEARNES, LL.M., 2301 S Street  
\*AUGUSTUS STORRS WORTHINGTON, LL.B., 416 Fifth Street, N. W.

1914.

THOMAS HENRY ANDERSON, LL.D., 1531 New Hampshire Avenue, N. W.  
\*HARRY CASSELL DAVIS, A.M., L.H.D., 1006 Massachusetts Avenue, N. W.  
WILLIAM JAMES FLATHER, Riggs National Bank.  
WILLIAM DAVID HOOVER, LL.M., National Savings & Trust Company.  
\*JOHN BELL LARNER, LL.B., LL.D., 900 F Street, N. W.  
HENRY BROWN FLOYD MACFARLAND, 1420 New York Avenue, N. W.  
WILLIAM HENRY SINGLETON, A.B., 2020 H Street, N. W.

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\* Nominated by the Alumni.



## Chairman of the Board of Trustees.

JOHN BELL LARNER.

## Vice-Chairman of the Board of Trustees.

ARCHIBALD HOPKINS.

## Standing Committees of the Board of Trustees.

*Executive:* Davis, Flather, Hopkins, Larner, Lisner, Singleton, Stockton.*Auditing:* Singleton, Flather, Mearns.*Subscriptions and Endowments:* Lisner, Macfarland, Perkins, Edson, Browne.*Departments of Medicine, Dentistry, and the Hospital:* Beyer, Larner, Edson.*Associated Colleges:* Edson, Browne, Flemer.*Graduate Studies and Teachers College:* Macfarland, Hopkins, Hemphill.*Arts and Sciences:* Greene, Singleton, Noyes.*Engineering:* Perkins, Hoover, Woodhull.*Department of Law:* Anderson, Larner, Worthington.*College of the Political Sciences:* Hopkins, Hemphill, Blair.RICHARD COBB, *Secretary of the University.*CHARLES WENDELL HOLMES, *Treasurer of the University.*AMERICAN AUDIT COMPANY, *Auditor of the University.*

- CHARLES HERBERT STOCKTON, LL.D.....PRESIDENT OF THE UNIVERSITY  
RICHARD COBB, A.B.....Secretary of the University  
CHARLES EDWARD MUNROE, Ph.D.....Professor of Chemistry, and  
Dean of the Faculty of Graduate Studies  
HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German  
WILLIAM ALLEN WILBUR, A.M.....Professor of English, and  
Dean of the College of Arts and Sciences  
GEORGE NEELY HENNING, A.M.....Professor of Romance Languages  
HOWARD LINCOLN HODGKINS, Ph.D....Professor of Mathematics, and  
Dean of the College of Engineering and Mechanic Arts  
OSCAR ALEXANDER MECHLIN, C.E.....Assistant Professor of Civil  
Engineering  
HENRY PARKER WILLIS, Ph.D.....Professor of Finance, and  
Dean of the College of the Political Sciences  
CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History  
WILLISTON SAMUEL HOUGH, Ph.M.....Professor of Philosophy, and  
Dean of the Teachers College  
WILLIAM CARL RUEDIGER, Ph.D...Professor of Educational Psychology  
CHARLES NOBLE GREGORY, A.M., LL.D.....Professor of Law, and  
Dean of the Faculty of Law  
JOHN PAUL EARNEST, A.M., LL.M.....Professor of Law  
WILLIAM CLINE BORDEN, M.D.....Dean of the Faculty of Medicine  
FREDERICK FULLER RUSSELL, M.D.....Professor of Pathology and  
Bacteriology  
JOHN ROLAND WALTON, D.D.S.....Dean of the Faculty of Dentistry  
HENRY E. KALUSOWSKI, Phar.D.....Dean of the National College of  
Pharmacy  
DAVID EASTBURN BUCKINGHAM, V.M.D....Dean of the Faculty of the  
College of Veterinary Medicine



### UNIVERSITY MEMBERS OF FACULTIES AND TEACHING STAFF.\*

(Arranged, with the exception of the President, in groups, in the order of appointment.)

CHARLES HERBERT STOCKTON, LL.D.....PRESIDENT OF THE UNIVERSITY  
Professors.

J. FORD THOMPSON, M.D.....Professor of Surgery, Emeritus

ALBERT FREEMAN AFRICANUS KING, A.M., M.D., LL.D....Professor of  
Obstetrics, and Dean Emeritus of the Faculty of Medicine

THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D....Professor of Zoölogy,  
Emeritus

GEORGE NICHOLAS ACKER, A.M., M.D.....Professor of Pediatrics and  
Clinical Professor of Medicine

HOWARD LINCOLN HODGKINS, Ph.D.....Professor of Mathematics,  
and Dean

HENRY CRÈCY YARROW, M.D.....Professor of Dermatology, Emeritus

DANIEL KERFOOT SHUTE, A.B., M.D.....Professor of Neuro-Anatomy,  
and Clinical Professor of Ophthalmology

HENRY CLAY THOMPSON, D.D.S.....Professor of Operative Dentistry

HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German

STERLING RUFFIN, M.D.....Professor of Medicine

CHARLES EDWARD MUNROE, Ph.D....Professor of Chemistry, and Dean

GEORGE PERKINS MERRILL, Ph.D.....Professor of Geology and  
Mineralogy

CHARLES WILLIAMSON RICHARDSON, M.D....Professor of Laryngology,  
Rhinology, and Otology

FRANK WIGGLESWORTH CLARKE, Sc.D...Professor of Mineral Chemistry

HARVEY WASHINGTON WILEY, M.D., Ph.D., LL.D.....Professor of  
Agricultural Chemistry

MELVILLE CHURCH, LL.M.....Professor of the Law of Patents

WILLIAM ALLEN WILBUR, A.M.....Professor of English, and Dean

JOHN WESLEY BOVEE, M.D.....Professor of Gynecology

THOMAS ASH CLAYTOR, M.D.....Clinical Professor of Medicine

AURELIUS RIVES SHANDS, M.D.....Professor of Orthopedic Surgery

CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History

RANDOLPH BRYAN CARMICHAEL, M.D.....Professor of Dermatology

FRANCIS RANDALL HAGNER, M.D..Professor of Genito-Urinary Surgery  
and Venereal Diseases

WALTER COLLINS CLEPHANE, LL.M.....Professor of Law

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\* NOTE.—In many instances members of the Teaching Staff give only part time to the University. For the names of the members of the Faculties and Teaching Staff of the Associated Colleges, see Part III of this catalogue.

- MITCHELL CARROLL, Ph.D...Professor of Greek and the History of Art  
 PAUL BARTSCH, Ph.D.....Professor of Zoölogy  
 EDWIN CHARLES BRANDENBURG, LL.M.....Professor of Law  
 ARTHUR PETER, LL.M.....Professor of Law  
 WILLIAM CREIGHTON WOODWARD, M.D., LL.M....Professor of Medical  
 Jurisprudence  
 ALBERT LIVINGSTON STAVELY, M.D.,....Clinical Professor of Gynecology  
 GEORGE NEELY HENNING, A.M.....Professor of Romance Languages  
 JOHN PAUL EARNEST, A.M., LL.M.....Professor of Law  
 JOHN ROLAND WALTON, D.D.S....Professor of Prosthetic Dentistry and  
 Orthodontia, and Dean  
 WILLIAM ALANSON WHITE, M.D.....Professor of Psychiatry, and  
 Clinical Professor of Neurology  
 CHARLES WILLIAM AUGUST VEDITZ, LL.B., Ph.D.....Professor of  
 Sociology  
 GEORGE LANSING RAYMOND, L.H.D.....Professor of Aesthetics  
 WILLISTON SAMUEL HOUGH, Ph.M..Professor of Philosophy, and Dean  
 GEORGE MILLER STERNBERG, M.D., LL.D.,  
 Professor of Preventive Medicine  
 ASAPH HALL, JR., Ph.D.....Professor of Astronomy  
 ARTHUR AUGUSTIN SNYDER, M.D.....Clinical Professor of Surgery  
 ISAAC WRIGHT BLACKBURN, M.D.....Professor of Morbid Anatomy  
 ALBERT MANN, A.M., Ph.D.....Professor of Botany  
 SHEPHERD IVORY FRANZ, Ph.D.....Professor of Physiology  
 HENRY PARKER WILLIS, Ph.D.....Professor of Economics and  
 Finance, and Dean  
 CHARLES SIDNEY SMITH, Ph.D.....Professor of Greek and Latin  
 WENDELL PHILLIPS STAFFORD, LL.D.....Professor of Law  
 JOSIAH ALEXANDER VAN ORSDEL, LL.D.....Professor of Law  
 WILLIAM CLINE BORDEN, M.D.....Professor of Surgery, and Dean  
 JOHN RYDER WELLINGTON, M.D.....Clinical Professor of Surgery  
 CHARLES STANLEY WHITE, M.D.....Professor of Oral Surgery and  
 Associate in Surgery  
 HURON WILLIS LAWSON, M.D.,..Professor of Histology and Embryology  
 and Associate in Anatomy and Surgery  
 DANIEL WEBSTER PRENTISS, M.D.....Professor of Hygiene  
 WILLIAM KENNEDY BUTLER, A.M., M.D....Professor of Ophthalmology  
 FREDERICK FULLER RUSSELL, M.D.....Professor of Pathology and  
 Bacteriology  
 BUCKNER MAGILL RANDOLPH, M.D....Professor of Materia Medica and  
 Therapeutics  
 CHARLES S. BUTLER, M.D.....Professor of Tropical Diseases  
 LUTHER HALSEY REICHELDERFER, M.D....Clinical Professor of Surgery  
 JOHN ROBERT DE FARGES, D.D.S.....Professor of Dental Metallurgy,  
 Economics, Jurisprudence, and Ethics





JOHN WILMER LATIMER, LL.B. .... Assistant Professor of Law  
OTIS DOW SWETT, M.S., LL.M. .... Assistant Professor of Chemistry  
CHARLES WARD MORTIMER, B.S., M.E. .... Assistant Professor of  
Electrical Engineering  
FRANK CHARLES STARR, S.B. ... Assistant Professor of Civil Engineering  
BLAINE FREE MOORE, A.B. .... Assistant Professor of Political Science  
EVERETT FRASER, A.B., LL.B. .... Assistant Professor of Law  
HIRAM COLVER MCNEIL, Ph.D. .... Assistant Professor of Physical  
Chemistry  
ROBERT RUSS KERN, A.B. .... Assistant Professor of Economics and  
Sociology  
LEVI RUSSELL ALDEN, A.M. .... Assistant Professor of History  
HENRY CRAIG JONES, LL.B. .... Assistant Professor of Law

Associates, Lecturers, Instructors, Demonstrators and Assistants.

JOHN BENJAMIN NICHOLS, M.D.....Associate in Medicine and Dietetics  
EDWARD EMORY MORSE, M.D.....Associate in Obstetrics  
JULIAN MAYO CABELL, M.D.....Associate in Obstetrics  
HARRY HAMPTON DONNALLY, A.M., M.D.....Associate in Medicine and  
Clinical Associate in Pediatrics  
WILLIAM FRANCIS MATTINGLY SOWERS, A.B., M.D.....Associate in  
Surgery  
GIDEON BROWN MILLER, M.D.....Associate in Gynecology  
HENRY RANDALL ELLIOTT, M.D.....Associate in Physiology and  
Pharmacology  
WILBUR R. BRANDENBURG, M.D.....Associate in Bacteriology and  
Pathology  
EDGAR PASQUAL COPELAND, M.D.....Clinical Associate in Pediatrics  
JOHN T. KELLEY, M.D.....Clinical Associate in Obstetrics  
WALTER ASHBY FRANKLAND, M.D.....Clinical Associate in Medicine  
J. LEWIS RIGGLES, M.D.....Associate in Anatomy and Gynecology  
HENRY JAMES NICHOLS, M.D..Associate in Bacteriology and Pathology  
JOHN SWEYN NEATE, M.D....Associate in Pathology and Bacteriology  
WALTER WATKINS WILKINSON, M.D.....Associate in Medicine  
FRANK LEECH, M.D.....Clinical Associate in Pediatrics  
OSCAR PHELPS AUSTIN.....Lecturer on Commercial Geography  
FREDERICK EUGENE FOWLE, JR., S.B.....Lecturer on Astro-Physics  
WILLIAM HAMILTON, Ph.D.....Lecturer on History  
WILLARD STANTON SMALL, Ph.D.....Lecturer on Education  
STEPHEN ELLIOTT KRAMER, B.S., A.M.....Lecturer on Education  
JOHN BALL OSBORNE, M.A.....Lecturer on Trade Relations and  
Consular Service  
PAUL CHARLTON, A.B.....Lecturer on Colonial Administration  
JOHN LEE COULTER, M.A.....Lecturer on Agricultural Economics



- FREDERICK WARREN GROVER, Ph.D.....Lecturer on Electricity  
 EDWIN WILEY, Ph.D.....Lecturer on English  
 FENTON BRADFORD, D.D.S.....Lecturer on Dental Materia Medica and  
 Therapeutics  
 HERMON ARDELL FORDYCE, D.D.S.....Lecturer on Oral Prophylaxis  
 JESSE E. POPE, Ph.D.....Lecturer on Agricultural Economics  
 CHARLES OSCAR PAULLIN, Ph.D.....Lecturer on Naval History  
 WALTER HIBBARD MERRILL, M.D....Instructor in Electro-Therapeutics  
 OSCAR ADDISON MACK McKIMMIE, M.D....Instructor in Laryngology  
 and Otology  
 HOBART SOUTHWORTH DYE, M.D.....Instructor in Laryngology and  
 Otology  
 TRUMAN ABBE, M.D.....Instructor in Genito-Urinary Surgery  
 JOSEPH LAWN THOMPSON, M.D.....Instructor in Surgery  
 ALFRED GEISES BUHRMAN.....Clerk of the Moot Court  
 GEORGE MORTON CHURCHILL, A.M.....Instructor in History  
 VIRGIL B. JACKSON, M.D.....Instructor in Gynecology  
 EDMUND THOMAS MURDAUGH FRANKLIN, M.D....Instructor in Surgery  
 WILLIAM J. FRENCH, M.D.....Instructor in Pediatrics  
 ARTHUR LEROY HUNT, M.D.....Instructor in Minor Surgery  
 CHARLES WILBUR HYDE, M.D.....Instructor in Medicine  
 JOHN WINSLOW TAYLOR, D.D.S...Instructor in Prosthetic Technics and  
 Demonstrator in the Dental Infirmary  
 ADAM KEMBLE, M.D.....Instructor in Gynecology  
 SOTHORON KEY, M.D.....Instructor in Medicine  
 HOMER GIFFORD FULLER, M.D.....Instructor in Genito-Urinary  
 Surgery and Venereal Diseases  
 CHARLES GARDNER SHOEMAKER, D.D.S.....Instructor in Operative  
 Technics  
 HENRY CISSEL YOUNG, D.D.S....Instructor in Prosthetic Technics and  
 Demonstrator in the Dental Infirmary  
 HERBERT CORNWELL HOPKINS, D.D.S.....Instructor in Orthodontia  
 HAYNER HASKELL GORDON, Ph.D..Instructor in Mechanical Engineering  
 ROBERT WILBUR MORSE, S.B.....Instructor in Mechanical Engineering  
 CLINE CHIPMAN, M.D.....Instructor in Minor Surgery  
 GEORGE HENRY SCHWINN, M.D..Instructor in Psychiatry and Neurology  
 BENJAMIN RUSH LOGIE, M.D.....Instructor in Neurology  
 JOHN POTTS FILLERBROWN, M.D....Instructor in Physiology and Surgery  
 MARK RITTENHOUSE WOODWARD, E.E.....Instructor in Electrical  
 Engineering  
 LESLIE CLEVELAND McNEMAR, A.B.....Instructor in Political Science  
 and International Law  
 DE WITT CLINTON POOLE, JR., M.Dip....Instructor in Political Science  
 CHARLES AUGUSTUS SIMPSON, M.D.....Instructor in Dermatology

ALBERT PERKINS TIBBETS, M.D.....	Instructor in Anatomy
COURSEN BAXTER CONKLIN, M.D.....	Instructor in Medicine
JOSEPH PLASS, A.M.....	Instructor in History
ALEXANDER YELVERTON PEYTON GARNETT, M.D..	Instructor in Obstetrics
HARRY HYLAND KERR, M.D.....	Instructor in Surgery
JOHN BRADFORD BRIGGS, S.B., M.D.....	Instructor in Pathology and Bacteriology
MILTON HAHN, M.D.....	Instructor in Pediatrics
HARRY GRANT HODGKINS, A.B.....	Instructor in Mathematics
WILLIAM JOHNSTON MALLORY, M.D.....	Instructor in Medicine
MARION EDWYN HARRISON, D.D.S.....	Demonstrator in the Dental Infirmary
CAESARE LOUIS CONSTANTINI, D.D.S.....	In Charge of Clinical Instruction in Dentistry
ARTHUR DURDAN WEAKLEY, D.D.S.....	Clinical Instructor in Dentistry
THOMAS LOCKE RUST, D.D.S.....	Clinical Instructor in Dentistry
GEORGE BERTRAM ROPER MACDONALD, D.D.S.....	Clinical Instructor in Dentistry
WILLIAM CARL KILLINGER, D.D.S.....	Clinical Instructor in Orthodontia
MARK FLORUS FINLEY, D.D.S.....	Clinical Instructor in Orthodontia
ALEXANDER DUNNINGTON COBEY, D.D.S.....	Clinical Instructor in Non-Cohesive Gold
GEORGE MILLER SHARP, D.D.S.....	Clinical Instructor in Special Crown
Z. WILBUR ALDERMAN, D.D.S.....	Clinical Instructor in Electro- Therapeutics
ROBERT EDWIN LAYTON, D.D.S.....	Clinical Instructor in Dentistry
MELVILLE PALMER ESLIN, D.D.S.....	Demonstrator in the Dental Infirmary
JAMES NORRIS ROBINSON, D.D.S.....	Demonstrator in the Dental Infirmary
CHARLES CLARK AMMERMAN, M.D.....	Assistant in Ophthalmology to the Dispensary
JULIA THECKLA MACMILLAN, M.S.....	Assistant in Zoölogy



### EDUCATIONAL ORGANIZATION.

The University embraces:

#### THE DEPARTMENT OF ARTS AND SCIENCES.

- The School of Graduate Studies.
- The College of Arts and Sciences.
- The College of Engineering and Mechanic Arts.
- The College of the Political Sciences.
- The Teachers College.

#### THE PROFESSIONAL DEPARTMENTS.

- The Department of Law.
- The Department of Medicine.
- The Department of Dentistry.

#### THE ASSOCIATED COLLEGES.

- National College of Pharmacy.
- The College of Veterinary Medicine.

### ANNUAL COMMENCEMENT.

The Annual Commencement is held on the Wednesday following the Wednesday nearest the first day of June. Students who have satisfied the requirements for degrees subsequent to the June Commencement may be awarded such degrees privately in October or February.

### THE UNIVERSITY LIBRARY

The University Library comprehends (1) the Library of the Department of Arts and Sciences, (2) the Law Library, (3) the Medical Library, and (4) the Library of the College of the Political Sciences. It contains over 43,700 volumes.

In addition to its general collections the Library of the Department of Arts and Sciences contains the library of the late Professor Richard Heinzel, of the University of Vienna, containing 7,200 books and pamphlets in Germanic philology and literature, and cognate branches; the library of the late Professor Curt Wachsmuth, of the University of Leipzig, containing 7,900 books and pamphlets in Greek and Roman literature, archæology, and history; and the divisional collections in engineering and mechanic arts and in education. It is open from 9 a. m. to 6.30 p. m.

The Law Library, containing 5,500 volumes, is open from 9 a. m. to 10 p. m.

The Medical Library, containing 4,000 volumes, is open from 9 a.m. to 10.30 p. m.

The Library of the College of the Political Sciences, containing 4,000 volumes in political history, international law, and the social sciences, is open from 9 a. m. to 10 p. m.

#### PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS.

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

*"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia. to wit:*

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."





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PART II.  
DEPARTMENTS OF THE UNIVERSITY.

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### Departments of the University.

## DEPARTMENT OF ARTS AND SCIENCES.

CHARLES HERBERT STOCKTON, L.L.D.....PRESIDENT OF THE UNIVERSITY  
THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D...Professor of Zoölogy,  
Emeritus  
HOWARD LINCOLN HODGKINS, Ph.D....Professor of Mathematics, and  
Dean  
HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German  
CHARLES EDWARD MUNROE, Ph.D....Professor of Chemistry, and Dean  
GEORGE PERKINS MERRILL, Ph.D..Professor of Geology and Mineralogy  
FRANK WIGGLESWORTH CLARKE, Sc.D..Professor of Mineral Chemistry  
HARVEY WASHINGTON WILEY, M.D., Ph.D., LL.D.....Professor of  
Agricultural Chemistry  
WILLIAM ALLEN WILBUR, A.M.....Professor of English, and Dean  
CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History  
PAUL BARTSCH, Ph.D.....Professor of Zoölogy  
MITCHELL CARROLL, Ph.D..Professor of Greek and the History of Art  
GEORGE NEELY HENNING, A.M.....Professor of Romance Languages  
CHARLES WILLIAM AUGUST VEDITZ, L.L.B., Ph.D.....Professor of  
Sociology  
GEORGE LANSING RAYMOND, L.H.D.....Professor of Aesthetics  
WILLISTON SAMUEL HOUGH, Ph.M..Professor of Philosophy, and Dean  
GEORGE MILLER STERNBERG, M.D., LL.D.,  
Professor of Preventive Medicine  
ASAPH HALL, JR., Ph.D.....Professor of Astronomy  
ALBERT MANN, A.M., Ph.D.....Professor of Botany  
HENRY PARKER WILLIS, Ph.D....Professor of Economics and Finance,  
and Dean  
CHARLES SIDNEY SMITH, Ph.D.....Professor of Greek and Latin  
FREDERICK FULLER RUSSELL, M.D.....Professor of Pathology and  
Bacteriology  
THOMAS MALCOLM PRICE, Ph.D..Professor of Physiological Chemistry  
WILLIAM CARL RUEDIGER, Ph.D., Professor of Educational Psychology  
ALFRED FRANCIS WILLIAM SCHMIDT, A.M..Professor of German, and  
Librarian  
WILLIS LUTHER MOORE, Sc.D., LL.D.....Professor of Practical  
Meteorology  
WILLIAM JACKSON HUMPHREYS, C.E., Ph.D.....Professor of  
Meteorological Physics



CHARLES NOBLE GREGORY, A.M., LL.D.....	Professor of Law
NEVIL MONROE HOPKINS, Ph.D.....	Assistant Professor of Chemistry
†PHILANDER BETTS, E.E.....	Assistant Professor of Electrical Engineering
EDWIN ALLSTON HILL, Ph.D.....	Assistant Professor of Chemistry
RAY SMITH BASSLER, Ph.D.....	Assistant Professor of Geology
†DE WITT C. CROISSANT, A.B.....	Assistant Professor of English
PERLEY GILMAN NUTTING, Ph.D.....	Assistant Professor of Physics
EDWIN VIVIAN DUNSTAN, C.E.....	Assistant Professor of Civil Engineering
OSCAR ALEXANDER MECHLIN, C.E.....	Assistant Professor of Civil Engineering
JOHN WILMER LATIMER, LL.B.....	Assistant Professor of Law
OTIS DOW SWETT, M.S., LL.M.....	Assistant Professor of Chemistry
CHARLES WARD MORTIMER, B.S., M.E.....	Assistant Professor of Electrical Engineering
FRANK CHARLES STARR, S.B....	Assistant Professor of Civil Engineering
BLAINE FREE MOORE, A.B.....	Assistant Professor of Political Science
HIRAM COLVER MCNEIL, Ph.D.....	Assistant Professor of Physical Chemistry
ROBERT RUSS KERN, A.B.....	Assistant Professor of Economics and Sociology
LEVI RUSSELL ALDEN, A.M.....	Assistant Professor of History
OSCAR PHELPS AUSTIN.....	Lecturer on Commercial Geography
FREDERICK EUGENE FOWLE, JR., S.B.....	Lecturer on Astro-Physics
WILLIAM HAMILTON, Ph.D.....	Lecturer on History
WILLIAM STANTON SMALL, Ph.D.....	Lecturer on Education
STEPHEN ELLIOTT KRAMER, B.S., A.M.....	Lecturer on Education
JOHN BALL OSBORNE, M.A.....	Lecturer on the Consular Service
PAUL CHARLTON, A.B.....	Lecturer on Colonial Administration
JOHN LEE COULTER, M.A.....	Lecturer on Agricultural Economics
FREDERICK WARREN GROVER, Ph.D.....	Lecturer on Electricity
EDWIN WILEY, Ph.D.....	Lecturer on English
JESSE E. POPE, Ph.D.....	Lecturer on Agricultural Economics
CHARLES OSCAR PAULLIN, Ph.D.....	Lecturer on Naval History
GEORGE MORTON CHURCHILL, A.M.....	Instructor in History
HAYNER HASKELL GORDON, Ph.D.....	Instructor in Mechanical Engineering
ROBERT WILBUR MORSE, S.B....	Instructor in Mechanical Engineering
MARK RITTENHOUSE WOODWARD, E.E.....	Instructor in Electrical Engineering
LESLIE CLEVELAND MCNEMAR, A.B..	Instructor in Political Science and International Law
HARRY GRANT HODGKINS, A.B.....	Instructor in Mathematics

† On leave of absence.

DE WITT CLINTON POOLE, M.Dip.....Instructor in Political Science  
 JOSEPH PLASS, A.M.....Instructor in History  
 JULIA THECKLA MACMILLAN, S.M.....Assistant in Zoölogy

#### Faculty of School of Graduate Studies.

President Stockton, Dean Munroe, Professors Hodgkins, Schoenfeld, Gill, Clarke, Wiley, Merrill, Swisher, Wilbur, Henning, Bartsch, Veditz, Raymond, Hough, Carroll, Sternberg, Hall, Willis, Mann, Smith, Ruediger, Schmidt, Moore, Humphreys, Price; Assistant Professors Hopkins, Hill, Dunstan, Mechlin, Nutting, Bassler, Croissant, Mortimer, McNeil, Alden, Kern.

#### Faculty of College of Arts and Sciences.

President Stockton, Dean Wilbur, Professors Hodgkins, Schoenfeld, Munroe, Merrill, Swisher, Bartsch, Henning, Hough, Willis, Smith, Schmidt; Assistant Professors Bassler, Swett, Kern, Moore, Mr. Woodward.

#### Faculty of College of Engineering and Mechanical Arts.

President Stockton, Dean Hodgkins, Professors Schoenfeld, Munroe, Merrill, Wilbur, Henning, Schmidt, Assistant Professors Dunstan, Mechlin, Swett, Starr, Mortimer, Latimer; Messrs. Gordon, Morse, Woodward.

#### Faculty of College of the Political Sciences.

President Stockton, Dean Willis, Professors Swisher, Gregory, Hodgkins, Schoenfeld, Munroe, Wilbur, Henning, Hough, Smith, Veditz; Assistant Professors Moore, Latimer, Kern; Messrs. McNemar, Poole, Churchill, Osborne, Charlton, Austin, Hamilton, Coulter, Pope, Paullin.

#### Faculty of Teachers College.

President Stockton, Dean Hough, Professors Hodgkins, Wilbur, Swisher, Bartsch, Smith, Ruediger, Schmidt; Assistant Professors Moore, Kern; Messrs. Small, Kramer.



## SCHOOL OF GRADUATE STUDIES.

### HIGHER DEGREES.

The higher degrees conferred in course by the University in this Division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (M.S.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), and Doctor of Philosophy (Ph.D.).

### ADMISSION.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Secretary of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Dean of the Faculty of Graduate Studies, together with catalogues of the institutions from which the candidates hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

### DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE.

To be admitted to candidacy for the Master's degree a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the courses of study pursued must have been such as to qualify the candidate for pursuing the subjects chosen for the Master's degree. In seeking admission the applicant must state whether he desires to obtain the Specialist degree or the Liberal Culture degree.

The Specialist degree is designed for students who propose to proceed toward the Doctor of Philosophy degree. Such candidates are required to complete one major and two minor subjects selected from properly correlated University subjects approved by the Faculty upon recommendation of the professors in charge and to present a satisfactory dissertation. Only one of the minor topics may be selected from the University subject which includes his major topic. Work for which this degree has been awarded may be credited as one year of work toward the Doctor of Philosophy degree, provided that it be in the same field of work.

The Liberal Culture degree is designed for students who do not intend to specialize in their work. Such candidates are required to complete three full courses of studies, of two or three hours each, distributed among three University subjects, not more than six hours of which shall be given to any one subject. These subjects must have the approval of the Faculty on the recommendation of the professors in charge. The candidate must also present a dissertation in the field to which his major subject belongs.

A candidate for a Master's degree must pass at least one full year in residence and study at this University, and no work done by him for the Bachelor's degree shall be counted again for a higher degree.

### HIGHER DEGREES IN ENGINEERING.

To be admitted to candidacy for higher degrees in Engineering a student must have completed a liberal undergraduate course of study such as is required by colleges of good standing antecedent to the baccalaureate degree in Engineering, and of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the Faculty as qualifying the candidate for pursuing the chosen line of study for the degree sought.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, sustain satisfactory examinations on the studies pursued, and present an acceptable thesis, together with a bibliography. Three full courses is the minimum required as constituting a full year's work. The courses chosen must be passed upon by the Faculty of Graduate Studies and have the approval of the professors under whom they are to be taken.

### DOCTOR'S DEGREES.

The degree of Doctor of Philosophy is conferred upon a student who has pursued specialized courses in University Subjects; engaged in original research in certain of the various departments of law, letters, or science under university auspices, for a period of not less than three years; has submitted an acceptable thesis, and has met all the requirements prescribed. The degree is given for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can be admitted to candidacy for the Doctor's degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good stand-



ing antecedent to the baccalaureate degree, and of such a character as to fit him to pursue to advantage researches in the field chosen for graduate work. The Faculty of Graduate Studies reserves the right to decide in all cases whether the antecedent training fulfills the requirements. The applicant may be credited with graduate work done at other universities, provided such work is shown to be of grade similar to that required here, but one year, preferably the last, must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.

The candidate for the Doctor's degree shall offer three topics from the University Subjects—one major and two collateral minor studies—the combination to be approved by the Faculty of Graduate Studies. These must be pursued under the guidance of a committee consisting of the professors in charge of the University Subjects in which the studies are pursued, with the professor in the major subject as chairman. This committee will determine his division of time, study, and research among the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work, and each minor topic during at least one year. The candidate shall pass satisfactory examinations upon the three subjects selected. He must satisfy the Faculty that he can read understandingly in the original, French and German works pertaining to his special field. In order to graduate the candidate must possess a broad acquaintance with his major subject and he must present a dissertation upon some topic approved by the professor in charge of his major subject, which shall be a contribution to knowledge and which shall be accompanied by an adequate bibliography.

#### EXAMINATIONS.

Candidates must pass written examinations upon all their topics. The examinations upon the minor topics may be taken at the close of the respective years in which these topics are completed, or later, at the discretion of the examiner. The final written examination on the major topic shall cover the candidate's entire university work, and shall be given when the professor of that subject is satisfied that the student has taken sufficient work to warrant such an examination being taken.

Every candidate for a Doctor's degree must pass an oral examination. This will consist (a) of a defence of his dissertation in the presence of the Faculty of Graduate Studies, or of so many of its members as may desire or may be designated by the Faculty to attend, and such other specialists as it may invite, and (b) of an examination upon the major and minor topics by the professors in charge of those topics. The oral examination will not be confined to the dissertation nor to courses of study pursued at this University, but the candidate is expected to

show a satisfactory knowledge of his major subject as a whole, and a general acquaintance with the broader field of knowledge of which this subject forms a part. If a student has satisfactorily passed his final written examinations, he may be permitted to complete his dissertation away from the University and to postpone the taking of his oral examination until he has thus completed his dissertation.

The subjects from which the candidate's selection may be made, as the Faculty may determine in each case, are as follows:

Agriculture, Applied Mathematics, Architecture, Astronomy, Astrophysics, Bacteriology, Botany, Chemistry, Classical Archaeology, Economics, Education, Civil Engineering, Electrical Engineering, Hydraulic Engineering, Mechanical Engineering, English, Ethics, Geology and Mineralogy, Germanic Languages and Literature, Greek Language and Literature, Histology and Embryology, History, International Law and Diplomacy, Latin Language and Literature, Law, Mathematics, Meteorology, Pathology, Philosophy, Physics, Physiology and Pharmacology, Political Sciences, Preventive Medicine, Psychology, Romance Language and Literature, Semitic Languages and Literature, Sociology, Zoology.

#### DEGREE OF DOCTOR OF PHILOSOPHY.

A candidate for this degree may, with the approval of the Faculty upon recommendation of the professors in charge, select his topics from properly correlated University Subjects, but only one of the minor topics may be in the subject which includes the major topic. He must by the tests applied prove his ability to do research work and his thorough acquaintance with the literature of the subject of which his dissertation treats.

#### REGULATIONS REGARDING DISSERTATIONS.

Dissertations must be presented to the Dean not later than May 1 for graduation in June. They must be typewritten on official dissertation paper, which may be obtained from the Treasurer of the University. The dissertation will be presented by the Dean to the Faculty, and by it referred to a committee for examination as to its merits. After their acceptance, dissertations, with their accompanying drawings, are the property of the University, and must be deposited in the University archives, but the authors of them are permitted to make copies. The candidate shall arrange, to the satisfaction of the Faculty, to print his dissertation within one year after the degree is granted, under the supervision of the professor in charge of his major subject, and shall present one hundred copies to the University, to be distributed among institutions of learning.



## DOCTORATE DISPUTATIONS.

A Doctorate Disputation was held publicly in University Hall, May 22, 1911. The theses that were successfully defended, the candidates, and the members of the boards of experts were as follows:

*Thesis:* A Study of the Soils of the United States. By GEORGE NELSON COFFEY, Ph.B., 1900, University of North Carolina; M.S., 1908, The George Washington University. Before FRANK K. CAMERON, Ph.D.; J. A. BONSTEEL, Ph.D.; GEORGE H. FAIRYER, M.S. Professor GEORGE P. MERRILL, Ph.D., presiding.

*Thesis:* An Investigation of the Action of the Crystal Rectifying Detectors. By HAYNER HASKELL GORDON, B.S., in E.E., 1908; E.E., 1909, The George Washington University. Before Professor LOUIS W. AUSTIN, Ph.D.; FREDERICK W. GROVER, Ph.D.; Assistant Professor CHARLES W. MORTIMER, B.S., M.E.; MARK R. WOODWARD, E.E. Professor H. L. HODGKINS, Ph.D., presiding.

*Thesis:* Experiments on Habit Formation in Dementia Præcox. By GRACE HELEN KENT, A.B., 1902; A.M., 1904, University of Iowa. Before Professor WILLIAM A. WHITE, M.D.; Professor WILLISTON S. HOUGH, Ph.M.; Professor WILLIAM C. RUEDIGER, Ph.D. Professor SHEPHERD IVORY FRANZ, Ph.D., presiding.

*Thesis:* A Bacteriological Study of Ham Souring. By CHARLES NEIL MCBRYDE, B.S., 1891, University of South Carolina; M.S., 1893, The Virginia Polytechnic Institute; M.D., 1897, The Johns Hopkins University. Before HENRY G. BEYER, M.D., Medical Director U. S. Navy; CHARLES F. CRAIG, M.D., Captain, Medical Corps, U. S. Army; GEORGE WHITFIELD STILES, M.D., Ph.D. Professor GEORGE M. STERNBERG, M.D., LL.D., Surgeon General U. S. A. (retired), presiding.

*Thesis:* Shakespeare's Treatment of the Supernatural in the Light of Contemporary Thought and Opinion. By EDWIN WILEY, B.S., 1891; A.B., 1898; A.M., 1898, University of Tennessee. Before Professor GEORGE L. RAYMOND, L.H.D.; Rabbi ABRAM SIMON, Ph.D.; Professor HENRY PARKER WILLIS, Ph.D. Professor WILLIAM ALLEN WILBUR, A.M., presiding.

## COLLEGE OF ARTS AND SCIENCES.

The session of 1911-12 begins Wednesday, September 27, 1911.  
The College of Arts and Sciences is open to men and women.

### ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools that present evidence of affording adequate preparation in the required subjects. The Secretary of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificates of the College Entrance Examination Board will be accepted.

*The requirement for admission is a four-year high-school course, or its equivalent, amounting to fifteen "units."*

A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

*These fifteen units must include English, 3 units; Mathematics, 2 units; and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units.* The remainder of the requirement is elective and may be satisfied in general by any accredited secondary school subjects.

### ENTRANCE EXAMINATIONS.

The regular examinations for admission are held in May.

The following is the schedule:

*Tuesday, May 21, 1912.*

Elementary Latin .....	9.00-11.00
Plane Geometry .....	11.00- 1.00
Physics .....	2.00- 4.00
Greek .....	2.00- 5.00



*Wednesday, May 22.*

Elementary Algebra .....	9.00-11.00
Elementary French .....	11.00- 1.00
Elementary German .....	2.00- 4.00
Ancient History .....	4.00- 6.00

*Thursday, May 23.*

Plane Trigonometry .....	9.00-11.00
Advanced French, Advanced German.....	11.00- 1.00
English .....	2.00- 5.00

*Friday, May 24.*

Advanced Algebra .....	9.00-11.00
Solid Geometry .....	11.00- 1.00
Chemistry; Advanced Latin.....	2.00- 4.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

Candidates from the Washington high schools for the Kendall and the University Scholarships will be examined on only nine units. These nine units upon which the examination will be given are the following: the specified subjects—English (three units), Mathematics (two units), and one other language (two units); the remaining two units may be in language, history, mathematics, physics, chemistry, biology—as the candidate shall elect. The remainder of the fifteen units must be certified from the high schools.

## DEFINITION OF REQUIREMENTS.

## ENGLISH.

(Three units.)

The requirements in English are those recommended by the Conference on Uniform Entrance Requirements in English, which met February 22, 1909. These recommendations are as follows:

Preparation in English has two main objects: (1) command of correct and clear English, spoken and written; (2) ability to read with accuracy, intelligence, and appreciation.

*English Grammar and Composition.*

The first object requires instruction in grammar and composition. English grammar should ordinarily be reviewed in the secondary school,

and correct spelling and grammatical accuracy should be rigorously exacted in connection with all written work during the four years. The principles of English composition governing punctuation, the use of words, paragraphs, and the different kinds of whole composition, including letter-writing, should be thoroughly mastered; and practice in composition, oral as well as written, should extend throughout the secondary school period. Written exercises may well comprise narration, description, and easy exposition and argument based upon simple outlines. It is advisable that subjects for this work be taken from the student's personal experience, general knowledge, and studies other than English, as well as from his reading in literature. Finally, special instruction in language and composition should be accompanied by concerted effort of teachers in all branches to cultivate in the student the habit of using good English in his recitations and various exercises, whether oral or written.

#### *Literature.*

The second object is sought by means of two lists of books, headed, respectively, *reading* and *study*, from which may be framed a progressive course in literature covering four years. In connection with both lists the student should be trained in reading aloud and be encouraged to commit to memory some of the more notable passages, both in verse and in prose. As an aid to literary appreciation he is further advised to acquaint himself with the most important facts in the lives of the authors whose works he reads and with their place in literary history.

1. *Reading*.—The aim of this course is to foster in the student the habit of intelligent reading and to develop a taste for good literature by giving him a first-hand knowledge of some of its best specimens. He should read the books carefully, but his attention should not be so fixed upon details that he fails to appreciate the main purpose and charm of what he reads.

With a view to large freedom of choice, the books provided for reading are arranged in the following groups, from which at least ten units\* are to be selected, two from each group:

(a) The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; Virgil's *Æneid*. The Odyssey, Iliad, and *Æneid* should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

\* Each unit is set off by semicolons.



(b) Shakespeare's *Merchant of Venice*; *Midsummer Night's Dream*; *As You Like It*; *Twelfth Night*; *Henry the Fifth*; *Julius Cæsar*.

(c) Defoe's *Robinson Crusoe*, Part I; Goldsmith's *Vicar of Wakefield*; either Scott's *Ivanhoe* or Scott's *Quentin Durward*; Hawthorne's *House of the Seven Gables*; either Dickens's *David Copperfield* or Dickens's *Tale of Two Cities*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; George Eliot's *Silas Marner*; Stevenson's *Treasure Island*.

(d) Bunyan's *Pilgrim's Progress*, Part I; The Sir Roger de Coverley Papers in the *Spectator*; Franklin's *Autobiography* (condensed); Irving's *Sketch Book*; Macaulay's *Essays on Lord Clive and Warren Hastings*; Thackeray's *English Humourists*; Selections from Lincoln, including at least the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and Letter to Horace Greeley, along with a brief memoir or estimate; Parkman's *Oregon Trail*; either Thoreau's *Walden* or Huxley's *Autobiography* and selections from *Lay Sermons*, including the addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk*; Stevenson's *Inland Voyage and Travels with a Donkey*.

(e) Palgrave's *Golden Treasury* (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, and Burns; Gray's *Elegy in a Country Churchyard* and Goldsmith's *Deserted Village*; Coleridge's *Ancient Mariner* and Lowell's *Vision of Sir Launfal*; Scott's *Lady of the Lake*; Byron's *Childe Harold*, Canto IV, and *Prisoner of Chillon*; Palgrave's *Golden Treasury* (First Series), Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's *Raven*, Longfellow's *Courtship of Miles Standish*, and Whittier's *Snow Bound*; Macaulay's *Lays of Ancient Rome* and Arnold's *Sohrab and Rustum*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and the *Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*.

2. *Study*.—This part of the requirement is intended as a natural and logical continuation of the student's earlier reading, with greater stress laid upon form and style, the exact meaning of words and phrases, and the understanding of allusions. For this close reading are provided a play, a group of poems, an oration, and an essay, as follows:

Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, and *Comus*; either Burke's *Speech on Conciliation with America* or both Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; either Macaulay's *Life of Johnson* or Carlyle's *Essay on Burns*.

*Examination.*

However accurate in subject-matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The first part of the examination will be upon ten units chosen, in accordance with the plan described earlier, from the lists headed *reading*; and it may include also questions upon grammar and the simpler principles of rhetoric, and a short composition upon some topic drawn from the student's general knowledge or experience. On the books prescribed for reading, the form of the examination will usually be the writing of short paragraphs on several topics which the candidate may choose out of a considerable number. These topics will involve such knowledge and appreciation of plot, character-development, and other qualities of style and treatment as may be fairly expected of boys and girls. In grammar and rhetoric, the candidate may be asked specific questions upon the practical essentials of these studies, such as the relation of the various parts of a sentence to one another, the construction of individual words in a sentence of reasonable difficulty, and those good usages of modern English which one should know in distinction from current errors.

The second part of the examination will include composition and those books comprised in the list headed *study*. The test in composition will consist of one or more essays, developing a theme through several paragraphs; the subjects will be drawn from the books prescribed for *study*, from the candidate's other studies, and from his personal knowledge and experiences quite apart from reading. For this purpose the examiner will provide several subjects, perhaps five or six, from which the candidate may make his own selections. The test on the books prescribed for study will consist of questions upon their content, form, and structure, and upon the meaning of such words, phrases, and allusions as may be necessary to an understanding of the works and an appreciation of their salient qualities of style. General questions may also be asked concerning the lives of the authors, their other works, and the periods of literary history to which they belong.

## LATIN.

*Elementary (Two units).*

- a. i. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verb; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive.
- ii. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based on Cæsar.



- b. *Cæsar*: Any four books of the Gallic War, preferably the first four.

*Advanced* (Two units).

- a. *Cicero*: Any six orations from the following list, but preferably the first six mentioned:  
The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.
- b. *Virgil*: The first six books of the *Æneid*.
- c. *Advanced Prose Composition*, consisting of continuous prose of moderate difficulty based on *Cicero*.
- d. *Sight Translation*, based on prose of no greater difficulty than the easier portions of *Cicero's* orations.

GREEK.

*Elementary* (Two units).

- a. i. *Greek Grammar*: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.
- ii. *Greek Prose Composition*, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of *Xenophon's Anabasis*.

- b. *Xenophon*: The first four books of the *Anabasis*.

*Advanced* (One unit).

- a. *Homer*: The first three books of the *Iliad* (omitting II, 494, to end).
- b. *Sight Translation*, based on prose of no greater difficulty than *Xenophon's Anabasis*.

FRENCH.

*Elementary* (Two units). Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of five periods per week.

*Advanced* (Two units). Candidates in Advanced French must have partly translated, partly read, in addition to the requirements for Ele-

mentary French, at least 1,000 pages of difficult French of several different authors, including history, fiction, drama, and poetry. Candidates must have had a four-years' course of five periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

### SPANISH.

(Two units.)

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of five periods per week.

### GERMAN.

*Elementary* (Two units). Candidates in Elementary German must have had a two-years' course of five periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of an elementary German grammar is requisite, to be tested by the translation into German of some fifteen sentences. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

*Advanced* (Two units). Candidates in Advanced German must have had a four-years' course of five periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

### HISTORY.

In this subject special importance is attached to preparation in geography.



*Ancient* (One unit).

- a. Greek History, through the Roman Conquest; as much as is contained in Myer's, Bottsford's, or West's History of Greece.
- b. Roman History; as much as is contained in Allen's, Bottsford's, or West's History of the Roman People.

*Medieval and Modern European History* (One unit). As much as is contained in Myer's History of Mediæval and Modern Europe.

*English History* (One unit). As much as is contained in Larned's or Cheyney's History of England.

*American History with the Elements of Civil Government* (One unit). As much as is contained in Fiske's History of the United States, and Fiske's Civil Government.

## MATHEMATICS.

*Elementary Algebra* (One unit).

## i. Algebra to Quadratics:

The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

## ii. Quadratics, etc.:

Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binominal theorem for positive integral exponents.

*Advanced Algebra* (One-half unit).

## i. Progressions, etc.:

The progressions, the elementary treatment of permutations and combinations, and the use of four and five place tables and logarithms.

## ii. Series, etc.:

Undetermined coefficients, the elementary treatment of infinite series, the binominal theorem for fractional and negative exponents, and the theory of logarithms.

## iii. Theory of equations:

Determinants and the elements of the theory of equations, including Horner's method for solving numerical equations.

*Plane Geometry* (One unit).

General text propositions, including the solution of simple original exercises and numerical problems.

*Solid Geometry* (One-half unit).

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres; of spherical triangles and the measurement of surfaces and solids.

*Plane Trigonometry* (One-half unit).

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulas, theory of logarithms and use of tables, solution of right and oblique plane triangles.

## PHYSICS.

(One unit.)

It is recommended that the candidate's preparation should include:

- a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note-book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

## CHEMISTRY.

(One unit.)

The candidate's preparation in chemistry should include:

- a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth by the College Entrance Examination Board. The laboratory note-book must be submitted for inspection.
- b. Instruction by lecture-table demonstrations.
- c. The study of at least one modern text-book.

*Requirements.*—The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and the recognition of the following elements and the preparation and study of their principal compounds: *Oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur, phosphorus, silicon, potas-*



sium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

The more detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles' laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements, solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

#### ADDITIONAL SUBJECTS.

Certificates will be accepted in botany, zoölogy, physiology, physiography, political economy, drawing, music, and other accredited subjects in secondary schools.

##### *Manual-training High School Subjects.*

Technical subjects in manual-training high schools, or schools of similar grade, when duly certified, may be credited as follows:

Shopwork (not exceeding two units), domestic science and domestic art (not exceeding two units).

##### *Business High School Subjects.*

Commercial subjects in business high schools or schools of similar grade, when duly certified, may be credited as follows:

Accounting and Finance. (One unit.)

Bookkeeping. (Two units.)

Business Organization. (One unit.)

Commercial law. (One unit.)

Government and Industrial Problems. (One-half unit.)

Commercial History. (One-half unit.)

Commercial and Physical Geography. (One-half unit.)

## ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

## ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

## REQUIREMENTS FOR DEGREES.

The undergraduate degrees offered by the College of Arts and Sciences are Bachelor of Arts and Bachelor of Science in Chemistry. To be recommended for either of these degrees, the student must be registered for at least one academic year, must satisfy the admission requirements, and must complete at least sixty "hours" of undergraduate courses.

An "hour" of credit is one hour of recitation or lecture work a week or one laboratory period a week for one academic year. Except in the last year of the course no student taking less than six hours of work will be registered as a regular student. But no time limit for the course is prescribed and the degree is given when the total of prescribed and elective courses is completed.

One grade of special distinction is recognized in awarding the bachelor's degree. It is shown by inserting the words "With Distinction" on the diploma after the name of the degree. It is awarded under the following conditions:

"That the names of all students who have received a mark of at least B (90 per cent) on courses representing at least sixty (60) per cent of all hours taken by them be submitted by the Dean to the Faculty of the Department in which the students shall be studying for a degree, after the completion of all final examinations in such students' final year of study for their degree;

"That the Faculty, after separate consideration of each individual case, shall, if it see fit, recommend the awarding of the degree 'With Distinction' to students who shall have fulfilled the conditions above specified."



### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS.

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study including a group of prescribed subjects, and aggregating at least sixty "hours."

There are five groups of prescribed subjects for the first two years of the college course. Every candidate for the degree of Bachelor of Arts elects one of these groups of prescribed subjects, and thereafter he is not permitted to change to another group except on condition that he fulfill the requirements of the group to which he changes.

The studies of the last two years of the course in the College of Arts and Sciences are elective, subject only to such administrative supervision as will insure the general consistency and the liberal character of the courses selected.

The scope of the five groups of prescribed subjects is a provision alike for the diversity in the subjects of the secondary school curriculum leading to a college course, and the needs of the various graduate and professional courses of study in the University for which the college course is a preparation.

Group I emphasizes Latin and Greek studies, and it would naturally be taken by students whose preparatory work has included four years of Latin. Group II emphasizes the Modern Languages, affording to students whose preparation has not included Latin the humanistic influences of the literatures of the Modern Languages. Group III emphasizes Mathematics and the Natural Sciences, and would naturally be selected by the student whose college preparation has been scientific rather than literary. Group IV consists of such studies as would constitute needed preparation for the Department of Law. Group V consists of the subjects that should be taken by those intending to enter the Department of Medicine. The five groups are as follows:

(NOTE.—Whenever in the following groups French or German is taken, if it is elementary, the same language shall be continued the succeeding year.)

#### GROUP I.

	Hours.
English .....	6
History .....	3
Languages* .....	9
Latin .....	6
Mathematics .....	3
Psychology and Logic.....	3
	—
	30

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\* To be elected from Greek, French, German.

## GROUP II.

	Hours.
English .....	6
French .....	3
German .....	6
History .....	6
Mathematics or Science.....	3
Psychology and Logic.....	3
Romance Language.....	3
	—
	30

## GROUP III.

	Hours.
English .....	3
History .....	3
Mathematics .....	6
Modern Languages .....	6
Psychology and Logic.....	3
Science .....	5
	—
	26

## GROUP IV.

	Hours.
Economics .....	3
English .....	6
History .....	7
Mathematics .....	3
Modern Languages or Latin.....	6
Science .....	3
	—
	28

## GROUP V.

	Hours.
English .....	3
German .....	3
History .....	3
Mathematics .....	3
Psychology and Logic.....	3
Sciences:	
Chemistry, 1, 3, 23.....	7
Physics, 1, 2, or 2, 3.....	5
Biology .....	5
	—
	32



# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CHEMISTRY.

## *Freshman Year.*

	Hours.		Hours.
Chemistry, 1, 2.....	5	French or German.....	3
English, 1 or 2.....	3	Geology, 1.....	2
Mathematics, 3 or 6.....	3		

## *Sophomore Year.*

Chemistry, 3, 20.....	5	Mathematics, 9 or 12.....	3
French or German.....	3	Physics, 1, 2.....	5

## *Junior Year.*

Chemistry, 4, 21, 23.....	6	Mathematics, 20 or 21.....	3
French or German.....	3	Electrical Engineering, 7.....	3

## *Senior Year.*

Chemistry, 6, 24, 25, 27.....	9	Geology, 2.....	2
Economics or History.....	3		

## COMBINED COURSES.

The regular courses in the College of Arts and Sciences are so correlated with courses in the professional departments that the degree of Bachelor of Arts and the professional degree in Law may be obtained in six years, and in Medicine in seven years.

## SCHEDULE OF COURSES IN THE REQUIRED SUBJECTS FOR THE FIRST TWO YEARS.

	MON.	TUES.	WED.	THURS.	FRI.	SAT.
9:00	Math. 3	English 3	Math. 3	English 3	Math. 3	English 3
10:00	Math. 9 Psychol. 1a Logic 2a	English 1 Physics 2 Spanish 1	Math. 9 Psychol. 1a Logic 2a	English 1 Physics 2 Spanish 1	Math. 9 Psychol. 1a Logic 2a	English 1 Spanish 1
11:00	Econ. 20 French 1 German 3 Greek 2	German 1 Physics 2	Econ. 20 French 1 German 3 Greek 2	German 1 Physics 2	Econ. 20 French 1 German 3 Greek 2	German 1
1:30	Graphics 1 Latin 2 Physics 3	Chem. 2	Graphics 1 Latin 2 Physics 3	Chem. 2	Latin 2 Physics 3	
2:30	Graphics 1 Greek 1 Hist. 1, 2	Chem. 2 Hist. 26	Graphics 1 Greek 1 Hist. 1, 2	Chem. 2 Hist. 26	Greek 1 Hist. 1, 2	
3:30	Graphics 1 Hist. 3, 4 Latin 1	Chem. 2	Graphics 1 Hist. 3, 4 Latin 1	Chem. 2	Hist. 3, 4 Latin 1	
4:30	English 2 Physics 1 Psychol. 1b Logic 2b	Chem. 1 French 4 German 2 Hist. 32	English 2 Physics 1 Psychol. 1b Logic 2b	Chem. 1 French 4 German 2 Hist. 32	English 2 Physics 1 Psychol. 1b Logic 2b	Chem. 1 French 4 German 2
5:40	Econ. 20 English 4 Geology 2 Math. 12 Math. 4	French 2 Geology 1 German 4 Math. 6	Econ. 20 English 4 Math. 12 Math. 4	French 2 Geology 1 German 4 Math. 6	Econ. 20 English 4 Geology 2 Math. 12 Math. 4	French 2 German 4 Math. 6

## PRIZES.

Only candidates for degrees may compete for these prizes.

STAUGHTON AND ELTON PRIZES.—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

RUGGLES PRIZES.—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.



**DAVIS PRIZES.**—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Only members of the Senior Class are eligible to compete for these prizes.

**DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES.**—These prizes, founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediæval, Modern European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

**THE THOMAS F. WALSH PRIZE.**—This prize, established by Thomas F. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class who, having maintained a high standard in the regular classes of Mediæval, Modern European, English, and American History, shall produce the best essay upon a designated period of the History of Ireland.

**E. K. CUTTER PRIZE.**—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

**THE FUNK AND WAGNALLS STANDARD DICTIONARY PRIZE.**—The Funk and Wagnalls Company offers an unabridged copy of the latest edition of the Standard Dictionary of the English Language, to that member of the Freshman Class who passes the best examination in English Rhetoric. A special examination for this prize is given in May. The examination covers the work in English Rhetoric for the entire year.

**WILLIE E. FITCH PRIZE.**—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually for the best examinations in Chemistry.

**THE GARDINER G. HUBBARD MEMORIAL PRIZE.**—This is a prize in American History established by Mrs. Gertrude M. Hubbard in memory of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that student of the graduating class who has during four years maintained a high standing in the classes of American History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

**COLONIAL HISTORY PRIZE.**—The Society of the Colonial Dames of America, Chapter III, offers annually a gold medal for excellence in American Colonial History. This prize will be awarded by the Professor of History for general excellence in this subject as shown by class standing, by special essays, and by such other tests as shall be prescribed.

**JAMES MACBRIDE STERRETT, JR., PRIZE**, founded by Professor James Macbride Sterrett in memory of his son, consists of a gold medal, annually awarded to that student taking Course I in Physics who obtains the highest average in a special examination on a given subject, and in the writing of an essay on an assigned topic.

#### PRIZE AWARDS 1910-11.

STAUGHTON PRIZE.....	Helen Sellman Nicholson
Honorable Mention.....	Alice Mary Richards
RUGGLES PRIZE.....	Hilda Beale
DAVIS PRIZES:	
First Prize.....	Warren Jefferson Davis
Second Prize.....	Kenneth Fuller Maxcy
Third Prize.....	Irving Paul Taylor
DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES.....	{ Ethel Marguerite Weller
	{ .....Hilda Beale
THOMAS F. WALSH PRIZE.....	Helen Sellman Nicholson
E. K. CUTTER PRIZE.....	Helen Sellman Nicholson
FUNK AND WAGNALLS PRIZE.....	Mattie Eiker
GARDINER G. HUBBARD MEMORIAL PRIZE.....	Helen Sellman Nicholson
COLONIAL HISTORY PRIZE OF THE SOCIETY OF THE COLONIAL DAMES OF AMERICA.....	Helen Summy

#### SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term, or whose deportment is unsatisfactory, will be reported to the President's Council, and in the absence of extenuating circumstances the scholarship will be revoked. All designations to scholarships are awarded by the President's Council on the recommendation of the Dean.

#### *Scholarships for Competition.*

The University offers the following scholarships to be awarded on competitive examination given at the time of the May entrance ex-



aminations. Holders of these scholarships are expected to pursue a regular course in one of the colleges of the Department of Arts and Sciences. No scholarship is awarded to a candidate whose examination average is below 80 per cent.

**KENDALL SCHOLARSHIP.**—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that member of the graduating class of any of the Washington High Schools who attains the highest average in the entrance examinations. This scholarship continues throughout the undergraduate course, and the student holding it pays only the matriculation, library, laboratory, and graduation fees.

**UNIVERSITY SCHOLARSHIPS.**—The University offers also six scholarships, each continuing throughout the undergraduate course, to be awarded annually to members of the graduating classes of any of the Washington High Schools. The scholarships are divided, so far as the general averages will permit, among the several schools in proportion to the number of students in attendance upon each. Three scholarships are offered to young men and three to young women. These scholarships continue throughout the undergraduate course, and students holding them pay only the matriculation, library, laboratory, and graduation fees.

*Scholarships for Assignment.*

**DAVIS SCHOLARSHIP.**—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

**MARY LOWELL STONE SCHOLARSHIP.**—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University.

**MARIA M. CARTER SCHOLARSHIP.**—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

**FARNHAM SCHOLARSHIP.**—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

**WITHINGTON SCHOLARSHIP.**—This scholarship was founded in 1830, by the New York Baptist Theological Seminary, to be known as the Withington scholarship. It has an annual stipend in tuition fees of sixty dollars.

**WALKER SCHOLARSHIP.**—This scholarship was founded in 1824 by William Walker, Esq., of Putnam County, Georgia. It carries an an-

nual stipend of one hundred dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

**MOREHOUSE SCHOLARSHIP.**—This scholarship was founded by Mr. A. Morehouse, of Washington, D. C., in 1861. It carries an annual stipend of sixty dollars in tuition fees available for an undergraduate intending to enter the Christian ministry.

**MINISTERIAL AID.**—The University authorizes the remission of a stated amount in tuition fees, to be called Ministerial Aid, which may be given to students, resident in the District of Columbia or its immediate vicinity, in the regular courses of the College of Arts and Sciences, preparing for the ministry and not yet ordained.

**UNIVERSITY AID.**—The University authorizes the remission of a stated amount in tuition fees, to be called University Aid, which may be given to students in regular courses in the undergraduate departments of arts and sciences, financially dependent on parents, who are residents of the District of Columbia or its immediate vicinity and whose circumstances warrant pecuniary assistance. Any student receiving University Aid may be called upon by the University for clerical or like work to the extent of not more than one hour a week for every ten dollars' worth of tuition remitted.

#### COLUMBIAN WOMEN LOAN FUND.

The Columbian Women have established a fund from which money is loaned to women students, preference being given to women who have already begun work in the University and who need assistance in continuing it. The administration of the fund remains with the Columbian Women.

#### DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held on the Tuesday after the Easter holidays. The Davis Prizes were founded by Hon. Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of \$5, of \$10, and of \$15 annually—these premiums or prizes to be distributed annually to such members of the Senior Class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Dean of the College not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the Faculty of the College.



## ENOSINIAN SOCIETY.

The Enosinian Society, a literary association, to which any University student is eligible, meets regularly for the purpose of improvement in debate and composition.

This society had its beginning March 6, 1822, during the first session of Columbian College, when a number of students held a meeting "for the purpose of establishing a debating society."

## RELIGIOUS WORK.

The student movement in Association work is represented by the Young Men's Christian Association of the University, which was organized in the fall of 1905. The Association plans and conducts religious work among the men of the University. The Association calendar includes Bible study clubs, a weekly chapel service, and occasional men's meetings.

Similar lines of religious work are conducted among the women students by the Young Women's Christian Association of the College.

A chapter of the Brotherhood of St. Andrew was organized March 10, 1910, and a charter has since been granted.

## COLLEGE CHAPEL.

The College Chapel is held at 12 o'clock, noon, throughout the academic year.

The Dean of the College will confer with students as they may desire on questions concerning their welfare and will cooperate with them in all ways to make the college life one of personal helpfulness.

## COLLEGE OF ENGINEERING AND MECHANIC ARTS.

The session of 1911-1912 begins Wednesday, September 27, 1911.

### ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation in the required subjects. The Secretary of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

The certificate of the Washington high schools covering all the requirements for admission admits students without examination to the courses of the Freshman year.

The certificates of all schools accredited to the University will be accepted in so far as they meet the requirements for admission.

*The requirement for admission is a four-year high-school course, or its equivalent, amounting to fifteen "units."* A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

Candidates for admission to the Freshman Class in the College of Engineering are required to present fifteen units for admission, distributed as follows:

	Units.
English .....	3
French or German.....	4
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	1½
Plane Trigonometry .....	½
Chemistry .....	1
Physics .....	1
Electives .....	2½
	<hr/> 15



**NOTE.**—The modern language requirement may be satisfied by presenting four units in one language, or two units in French and two units in German. Students who present four units in one language will study the other language two years in College. Students who present two units in French and two units in German will study each language one year in College.

#### ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

#### ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates must show that they are familiar with the subjects preliminary to the studies which they wish to pursue.

#### COURSES FOR A DEGREE.

Three courses of study are offered:

- I. CIVIL ENGINEERING.
- II. ELECTRICAL ENGINEERING.
- III. MECHANICAL ENGINEERING.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, and in Mechanical Engineering, respectively. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington University are open to those who receive the above degrees, and lead, respectively, to the degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer.

#### REQUIREMENTS FOR A DEGREE.

The arrangement of the topics in each of the regular courses for a degree is shown below. The numbers following the names of subjects refer to the courses as given in the list of University Subjects on pages 91-125, to which reference should be made for more complete description.

## COMMON TO ALL COURSES.

*Freshman Year.*

- Chemistry, 1, 7.
  - General Chemistry and Qualitative Analysis.
- English, 1 or 2.
  - Rhetoric.
- French or German.
- Graphics, 1.
  - Mechanical and Freehand Drawing.
- Mathematics, 9 or 12.
  - Trigonometry; Analytic Geometry.

## CIVIL ENGINEERING COURSE.

*Sophomore Year.*

- Civil Engineering, 1, 4.
  - Surveying; Materials of Construction.
- French or German.
- Graphics, 8, 10.
  - Descriptive Geometry; Topographic Drawing.
- Mathematics, 20 or 21.
  - Calculus.
- Physics, 1, 2.
  - General Physics; Laboratory Physics.

*Junior Year.*

- Applied Mathematics, 20, 22.
  - Mechanics; Mechanics of Materials.
- Chemistry, 6.
  - Metallurgy.
- Civil Engineering, 2, 3, 8, 22.
  - Railroad Engineering; Highway Engineering; Practical Astronomy; Theory of Structures.
- Electrical Engineering, 6.
  - Industrial Engineering.
- Geology, 2.

*Senior Year.*

- Applied Mathematics, 21.
  - Hydraulics.
- Civil Engineering, 20, 21, 23, 24.
  - Masonry; Hydraulic Engineering; Theory of Structures; Sanitary Engineering.
- Contracts and Business Law.



## THE GEORGE WASHINGTON UNIVERSITY.

## ELECTRICAL ENGINEERING COURSE.

*Sophomore Year.*

French or German.

Graphics, 2, 8.

Advanced Mechanical Drawing; Descriptive Geometry.

Mathematics, 20 or 21.

Calculus.

Mechanical Engineering, 1.

Mechanism.

Physics, 1, 2.

General Physics; Laboratory Physics.

*Junior Year.*

Applied Mathematics, 20, 22.

Mechanics; Mechanics of Materials.

Chemistry, 6.

Metallurgy.

Electrical Engineering, 1, 4, 5.

Elementary Electricity and Electrical Engineering; Electrical

Measurements; Electrical Engineering Laboratory.

Mechanical Engineering, 20, 21.

Steam Engineering; Boilers.

*Senior Year.*

Applied Mathematics, 21.

Hydraulics.

Civil Engineering, 5, 6.

Surveying Instruments; Foundations.

Contracts and Business Law.

Electrical Engineering, 8, 21, 22, 23, 24, 26, 27.

Electrical Designs; Alternating Currents; Electrical Distribution; Electrical Applications; Electrical Engineering,

Laboratory; Electric Lighting; Electric Railways.

Mechanical Engineering, 10, 23.

Engineering Laboratory; Hydraulic Machinery.

## MECHANICAL ENGINEERING COURSE.

*Sophomore Year.*

French or German.

Graphics, 2, 8.

Advanced Mechanical Drawing; Descriptive Geometry.

Mathematics, 20 or 21.

Calculus.

Mechanical Engineering, 1.

Mechanism.

Physics, 1, 2.

General Physics; Laboratory Physics.

*Junior Year.*

Applied Mathematics, 20, 22.

Mechanics; Mechanics of Materials.

Civil Engineering, 22.

Theory of Structures.

Mechanical Engineering, 6, 9, 20, 21, 24, 28.

Engineering Drawing; Engineering Laboratory; Steam Engineering; Boilers; Cotton Machinery and Machine Tools; Industrial Management.

*Senior Year.*

Applied Mathematics, 21.

Hydraulics.

Chemistry, 6.

Metallurgy.

Civil Engineering, 5, 6.

Surveying Instruments; Foundations.

Contracts and Business Law.

Electrical Engineering, 7.

Dynamos and Motors.

Mechanical Engineering, 7, 10, 22, 23, 26, 27.

Machine Design; Engineering Laboratory; Gas Engines; Hydraulic Machinery; Dynamics of Machinery; Power Plant Design.

**PRIZES.**

Only candidates for degrees may compete for these prizes.

**RUGGLES PRIZES.**—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best scholars in Mathematics.

**DAVIS PRIZES.**—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Members of the Senior Class are eligible to compete for these prizes.

**JAMES MACBRIDE STERRETT, JR., PRIZE,** founded by Professor James Macbride Sterrett in memory of his son, consists of a gold medal.



annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject, and in the writing of an essay on an assigned topic.

**MUTH PRIZE.**—Geo. F. Muth & Co. offer a set of drawing instruments to the student taking Advanced Mechanical Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.

#### PRIZE AWARDS, 1910-11.

THE MUTH PRIZE.....Omar Bailey Buchanan

#### SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarship are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarships will be revoked.

The Kendall Scholarship and the University Scholarships are open to students in the College of Engineering. Detailed statements in regard to these scholarships are given on page 68.

**HENRY HARDING CARTER SCHOLARSHIPS.**—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consist of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

**ADMIRAL POWELL SCHOLARSHIPS.**—The Admiral Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for the "free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Department of the Navy, or to those who desire to fit themselves for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	Hours.
Navigation and Nautical Astronomy.....	6
Algebra and Geometry.....	3
Trigonometry .....	1½
Mechanical and Machine Drawing.....	4
English .....	3
French .....	3
German .....	3
Spanish .....	3
International Law .....	1
Commercial Geography .....	1
Admiralty Law .....	½
Boilers and Power Plants.....	3
Measurement of Power.....	2
Electricity .....	3
Electrical Engineering .....	6



## COLLEGE OF THE POLITICAL SCIENCES.

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### GENERAL STATEMENT.

The College of the Political Sciences offers systematic instruction in the various branches of the political sciences. This education is intended to give a training that will fit certain students for consular and diplomatic positions and for the public service of the United States, while imparting that general culture and equipment necessary for efficient citizenship and the intelligent grasp of public questions. It is further intended as a suitable training for those who expect to enter commercial life, or to engage subsequently in the study of law.

In Washington are collected the official records of the country. As the capital of the nation, Washington furnishes the best, and in many instances the only, opportunity for studying the government in actual operation. Congress, the Supreme Court, the Executive Departments, and the government of the District of Columbia afford object lessons for the study of political science. Such an atmosphere for the student of the political sciences can be found nowhere else.

Among the special advantages for study may be mentioned the Library of Congress, which contains 1,700,000 volumes and over 300,000 maps, manuscripts, etc., accessible to the students of the University; the Library of the Smithsonian Institution, enriched by its exchanges with all the countries of the civilized world; the Library of the State Department, containing more than 80,000 volumes, including nearly all the important publications relating to international law, diplomacy, and political history; the Public Library of the District of Columbia, with 90,000 volumes; the United States Bureau of Education, rich in statistical material and foreign exchanges; the excellent working libraries of the Department of Commerce and Labor, the Bureau of Statistics, the Bureau of Trade Relations, the Bureau of American Republics, the Interstate Commerce Commission, the Census Bureau, and the Department of Agriculture.

Of these special facilities, as well as those which Washington enjoys as a center of general culture, the College of the Political Sciences is planned to take a thorough and systematic advantage.

### ADMISSION.

The requirement for admission to the College of the Political Sciences is a four-year high school course, or its equivalent, amounting to 15 "units." A unit represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

These 15 units must include English, 3 units; mathematics, 2 units; and one of the following languages: Latin, Greek, French, German, or Spanish, 2 units. The remainder of the requirement is elective and may be satisfied, in general, by any high school subjects approved by the College Entrance Examination Board. The subjects that will be accepted are identical with those described under the head of "Definition of Requirements" in connection with the College of Arts and Sciences of the George Washington University. The certificate of the College Entrance Examination Board will be accepted in so far as the subjects satisfy the requirements for admission. The certificates of the Washington high schools covering all the requirements for admission admit students without examination to the College of the Political Sciences. The certificates of all schools accredited to the University will be accepted in so far as they meet the requirements for admission. Candidates who cannot present certificates from accredited schools will be required to pass examinations in the subjects and at the times prescribed by the College of Arts and Sciences of the George Washington University.

Students who have completed work in other colleges or universities of approved rank and who have received credit for that work may be admitted to advanced standing, provided their work has been of such character as to be acceptable in lieu of courses in the College of the Political Sciences. Students who wish to pursue work leading to a graduate degree must present an acceptable Bachelor of Arts degree, or its equivalent, granted by a college or university of approved standing.

The session 1911-12 begins September 27, 1911. The academic year is divided into two parts—the first half year beginning September 27, and the second half year beginning February 1. Since many courses commence with the beginning of the second half year, a student may usually enter the College at that time without being necessarily delayed in the completion of the work required for graduation.

#### ADMISSION TO SPECIAL COURSES.

All courses of instruction are open to persons of maturity and suitable attainments who wish to pursue special studies without reference to a degree. Such persons are designated as special students. Upon successfully passing the examinations in the courses pursued, such students will receive certificates for work completed. But no one can be admitted to any course without satisfying the professor in charge that he has had previous training sufficient to carry on the work of the course with profit.

#### THE DEGREE OF BACHELOR OF ARTS.

The only undergraduate degree conferred by the University for work completed in the College of Political Sciences is the degree of Bachelor



of Arts (A.B.). To be recommended for this degree, the student (1) must have satisfied the entrance requirements, (2) must have been registered for at least one academic year, and (3) must have completed a total of sixty hours of class-room work (fifteen hours per week for four years), of which at least 30 must be taken in the field of the Political Sciences, or must be credited with subjects parallel to those taught in the College and obtained through transfer from another institution of similar grade.

Students who are registered in the College of the Political Sciences are required to pursue courses aggregating 6 hours per week in history, economics, or political science, through their first and second years. Other courses sufficient to aggregate 9 hours in each of the first two years may be chosen from any one of the five groups described by the College of Arts and Sciences. In other words, students may select studies conforming to the arrangement in any one of these five groups, substituting an aggregate of not less than 6 hours in history, economics, and political science for such other courses therein mentioned as they may desire to omit. During the third and fourth years of the student's course, subjects aggregating 9 hours per week must be pursued in the special field of the Political Sciences. An aggregate of 30 hours per week in that field is thus required for graduation from the College of the Political Sciences. Students may, however, elect the whole of their work during the third and fourth years in the College of the Political Sciences, thus securing a total credit of 42 hours. This credit, together with 18 hours chosen in some one of the groups of studies indicated by the College of Arts and Sciences, will entitle the student to the degree of Bachelor of Arts. Before graduation, students will be expected to pursue as part of their regular courses English and two other modern languages, electing at least 3 hours per week for one year in each language chosen.

A representative course of study covering the first two years of a student's course may be suggested as follows:

	Hours.
Economics .....	6
Political Science and History.....	9
English .....	3
Modern Languages .....	6
Mathematics or Natural Science.....	3
Psychology .....	3

Variations of this elective grouping and selection of studies to fulfill the general requirements of the grouping may be worked out in consultation with the Dean.

In the senior year students may elect 15 hours from courses in the Law School if they desire.

The Bachelor of Arts degree is granted by the University upon the recommendation of the Faculty. No student may receive the degree who has not been in residence at this University at least one academic year.

### HIGHER DEGREES.

The higher degrees conferred by the University for work completed in the College of the Political Sciences are Master of Arts (A.M.), Master of Diplomacy (M.Dip.), and Doctor of Philosophy (Ph.D.). Candidates for any one of these degrees must possess a Bachelor of Arts degree, or its equivalent, granted by a college or university of acceptable rank.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Secretary of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Dean of the Faculty of Graduate Studies, together with catalogues of the institutions from which they hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

Candidates for the degree of Master of Diplomacy (1) must possess a knowledge of two modern languages other than English, (2) must complete twenty-four hours (twelve hours per week for two years) of class-room work, and (3) must prepare a satisfactory dissertation showing original research and investigation. But applicants for this degree who, in the attainment of their Bachelor of Arts degree, have completed the equivalent of twelve acceptable units in economics, political science, and public law may be credited with not more than twelve units toward the degree of Master of Diplomacy. Candidates for the Master of Diplomacy degree pursue their work under the general direction of the Dean of the College of Political Sciences. This degree is awarded by the University upon the recommendation of the Faculty of the College of Political Sciences.

For an outline of the requirements for the degree of Master of Arts and Doctor of Philosophy and for the regulations in regard to dissertations, the candidate is referred to the general catalogue of the University.

Students who become candidates for the Master of Arts or the Doctor of Philosophy degree pursue their work under the general direction of the Dean of the Faculty of Graduate Studies. These degrees are awarded by the University upon the recommendation of the Faculty of Graduate Studies. No student may receive any higher degree who has not been in residence in this University at least one academic year.



## PRIZES.

Competition for the following prizes will be open to students of the Senior Class in the College of the Political Sciences who are entered for degrees and who have complied with the special conditions prescribed under the several foundations.

**STAUGHTON AND ELTON PRIZES.**—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

**RUGGLES PRIZES.**—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

**DAVIS PRIZES.**—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Only members of the Senior Class are eligible to compete for these prizes.

**DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES.**—These prizes, founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediæval, Modern European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

**THE THOMAS F. WALSH PRIZE.**—This prize, established by Thomas F. Walsh, Esq., of Colorado, and based upon the income of one thousand dollars, consists of a gold medal awarded annually to that student of the graduating class who, having maintained a high standard in the regular classes of Mediæval, Modern European, English, and American History, shall produce the best essay upon a designated period of the History of Ireland.

**E. K. CUTTER PRIZE.**—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

**THE GARDINER G. HUBBARD MEMORIAL PRIZE.**—This is a prize in American History established by Mrs. Gertrude M. Hubbard in memory

of her husband, the late Gardiner G. Hubbard. The endowment is a fund of one thousand dollars, the income from which is to be given annually to that student of the graduating class who has during four years maintained a high standing in the classes of American History, and who has produced the best essays upon subjects based upon a study of some assigned period of American history.

**COLONIAL HISTORY PRIZE.**—The Society of the Colonial Dames of America, Chapter III, offers annually a gold medal for excellence in American Colonial History. This prize will be awarded by the Professor of History for general excellence in this subject as shown by class standing, by special essays, and by such other tests as shall be prescribed.

### LIBRARY.

The library of the College of the Political Sciences contains several thousand volumes carefully selected with special reference to library work in connection with the courses of instruction offered. It affords a practical work-room for the use and convenience of students and is open during the day and evening. The main library of the University and the law library are in neighboring buildings. The Library of Congress, the Carnegie Library, and other libraries are easily accessible for extended research work and special investigation.

### COURSES OF STUDY.

The courses offered in this College are grouped in four sections: (1) Political Science, (2) International Law and Diplomacy, (3) Economics, and Sociology, (4) History. The courses in each section are classified in three divisions: (1) for undergraduates, (2) for undergraduates and graduates, (3) for graduates. The first division includes those courses which are distinctly intended for beginners in the subjects who are in the earlier years of the college course. The second includes those which, while primarily for undergraduates, may nevertheless be pursued with profit by graduate students who have not had equivalent courses in their undergraduate work. The third division embraces courses which are offered primarily for graduate students, although undergraduates specially fitted to pursue the work may occasionally be admitted to such courses with the consent of the Dean and of the Professor in charge.

Courses in this College are open to students in the other departments of the University with the consent of their respective Deans. Students in the College of the Political Sciences may, likewise, with the consent of the Dean of the College, elect courses in the other departments of the University.

Lectures begin at 8.00 a. m. and close at 6.30 p. m.



## SCHEDULE OF HOURS.

FIRST SEMESTER, 1911-1912.

TIME.	MONDAY.	TUESDAY.	WEDNESDAY.
8-8.50	Pol. Hist. Mod. Europe. —McNemar. Accounting—Willis.	Public Finance—Willis. Consular Service —Osborne.	Pol. Hist. Mod. Europe. —McNemar. Econ. of Agriculture —Coulter.
9-10	Pol. Parties—McNemar.		Pol. Parties—McNemar.
10-11			
11-12	Gen'l Econ.—Kern.		Gen'l Econ.—Kern.
1.30-2.30	Munic. Gov't—Moore. Hist. Am. Dip.—Swisher.		Munic. Gov't—Moore.
2.30-3.30	Mediæval Hist. —Swisher.	Am. Pol. Hist.—Swisher.	Mediæval Hist. —Swisher.
3.30-4.30	Mod. Europ. Hist. —Swisher.		Mod. Europ. Hist. —Swisher.
4.50-5.40	El. of Pl. Sci.—Moore. Prin. Int. Law—Stockton. El. Sociology—Kern.	Com. Law—Latimer. Eng. Hist.—Churchill. Hist. Pty. Gov't —Swisher.	El. of Pol. Sci.—Moore. Prin. Int. Law— McNemar.
5.40-6.30	Gen'l Econ.—Kern. Amer. Gov't—Moore. Com. Indus. & Trans. —Willis.	Combinations, Trusts —Kern. El. of Diplomacy.	Gen'l Econ.—Kern. Amer. Gov't—Moore.

TIME.	THURSDAY.	FRIDAY.	SATURDAY.
8-8.50	Public Finance—Willis.	Pol. Hist. Mod. Europe. —McNemar. Accounting—Willis. Consular Service —Osborne.	Econ. of Agriculture —Coulter.
9-10		Pol. Parties—McNemar.	
10-11			
11-12		Gen'l Econ.—Kern.	Current Hist.—Swisher.
1.30-2.30		Munic. Gov't—Moore. Hist. Am. Dip.—Swisher.	
2.30-3.30	Am. Pol. Hist.—Swisher.	Mediæval Hist. —Swisher.	
3.30-4.30		Mod. Europ. Hist. —Swisher.	
4.50-5.40	Com. Law—Latimer. Eng. Hist.—Churchill. Hist. Pty. Gov't —Swisher.	El. of Pl. Sci.—Moore. Prin. Int. Law— McNemar. El. Sociology—Kern.	Com. Law—Latimer. Eng. Hist.—Churchill.
5.40-6.30	Combinations, Trusts —Kern. El. of Diplomacy.	Gen'l Econ.—Kern. Amer. Gov't—Moore. Com. Ind. and Trans. —Willis.	

## SCHEDULE OF HOURS.

SECOND SEMESTER, 1911-1912.

TIME.	MONDAY.	TUESDAY.	WEDNESDAY.
8-8.50	Pol. Hist. Mod. Europe. —McNemar. Adv. Accounting—Willis.	Money and Bank.—Willis. Com. Policies—Osborne.	Pol. Hist. Mod. Europe. —McNemar. Econ. of Agriculture —Pope.
9-10	Admin. Law—McNemar.		Admin. Law—McNemar.
10-11			
11-12	Econ. of Dist.—Kern.		Econ. of Dist.—Kern.
1.30-2.30	Europ. Gov'ts—Moore. Hist. Am. Dip.—Swisher.		Europ. Gov'ts—Moore.
2.30-3.30	Mediæval Hist. —Swisher.	Am. Pol. Hist.—Swisher.	Mediæval Hist. —Swisher.
3.30-4.30	Mod. Europ. Hist. —Swisher.		Mod. Europ. Hist. —Swisher.
4.50-5.40	Prin. of Int. Law —Stockton. Mod. Social Prob.—Kern.	Eng. Hist.—Churchill. Pri. R'ts and Immun. —Moore. Hist. Pty. Gov't —Swisher.	Prin. Int. Law —McNemar.
5.40-6.30	Econ. of Dist.—Kern. Nat'l Gov't—Moore. Com. Geog. and Business Organ.—Austin.	Pri. R'ts and Immun. —Moore. Labor Problems—Kern. Corp. Finance—Willis.	Econ. of Dist.—Kern. Nat'l Gov't—Moore. Com. Geog. and Business Organ.—Willis.

TIME.	THURSDAY.	FRIDAY.	SATURDAY.
8-8.50	Money and Bank —Willis.	Pol. Hist. Mod. Europe. —McNemar. Adv. Accounting—Willis. Com. Policies—Osborne.	Econ. of Agriculture —Pope.
9-10		Admin. Law—McNemar.	
10-11			
11-12		Econ. of Dist.—Kern.	Current Hist.—Swisher.
1.30-2.30		Europ. Gov'ts—Moore. Hist. Am. Dip.—Swisher.	
2.30-3.30	Am. Pol. Hist.—Swisher.	Mediæval Hist. —Swisher.	
3.30-4.30		Mod. Europ. Hist. —Swisher.	
4.50-5.40	Eng. Hist.—Churchill. Hist. Pty. Gov't —Swisher.	Prin. Int. Law —McNemar. Mod. Social Prob.—Kern.	Eng. Hist.—Churchill.
5.40-6.30	Labor Problems—Kern. Corp. Finance—Willis.	Econ. of Dist.—Kern. Nat'l Gov't—Moore. Com. Geog. and Business Organ.—Austin.	



## TEACHERS COLLEGE.

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The session of 1911-12 begins Wednesday, September 27, 1911.

### GENERAL STATEMENT.

The purpose of the Teachers College is to provide (a) collegiate training for teachers, (b) instruction in education as a department of science.

While research in the field of educational science, and the provision of courses which may be taken mainly for their culture value, are important features of the work of any university department of education, the principal aim of the Teachers College is the practical and professional one of training teachers. In this large field the Teachers College will restrict itself for the present mainly to the preparation of teachers for the higher grades of instruction and administration. The many excellent normal schools and training colleges are preparing teachers for efficient service in the primary and grade schools; but the need of the broad and substantial training of a college course as a preparation for high-school teaching, and for responsible administrative positions, is now very generally admitted. Up to the present time it has too often happened that the college graduate who wishes to teach has been without any knowledge of the theory and practice of his vocation. The George Washington University, in common with many leading institutions, has endeavored to remedy this defect in the college training of the teacher, and also to supplement the training given by normal schools, by establishing a department for the systematic study of education in its historical, theoretical, and practical aspects.

The aims of the Teachers College may, accordingly, be summarized as follows:

- (a) To promote the knowledge of educational science.
- (b) To fit students for the higher positions in the public school service.
- (c) To secure to teaching the rights and prerogatives of a profession.
- (d) To aid in raising the standards of educational practice, and so to increase the efficiency of public education.

### ORGANIZATION.

In order to combine to the best advantage a general college education with adequate professional training for teaching, the Teachers College provides a four years' college course, the first two years of which are devoted to a foundation of general culture courses, and the last two to

the professional courses and to specialization in the subjects which the student expects to teach.

Inasmuch as a large number of teachers in service are without college degrees, and a still larger number desire to supplement their professional training by taking special courses, the courses of instruction have been arranged to meet the needs of teachers in service, as well as of undergraduate students. The required courses constituting the prescribed work in education are given both in the morning and in the late afternoon hours, and are, therefore, easily accessible both to students and to teachers from the schools. The hours are also convenient for persons employed in the Departments of Government.

Opportunity is also offered to graduate students to pursue a major or minor in Education, leading to the granting of a Teacher's Diploma in conjunction with a Master's or a Doctor's degree. In this connection attention may be called to the exceptional facilities existing in Washington for graduate study, particularly in the history of education in the United States. The extensive collections of the Congressional Library and the library and archives of the United States Bureau of Education furnish unrivaled opportunities in this department.

#### ADMISSION.

Applicants for admission (a) as regular students, *i. e.*, as candidates for a degree, must present certificates showing that they have completed a *four-year high school course, or its equivalent, amounting to fifteen "units," three of which must be in English, two in Mathematics, and two in one of the following languages: Latin, Greek, French, German, or Spanish.* The remainder of the required fifteen units may be satisfied by any accredited secondary subjects.

A "unit" represents a year's study in any subject in a secondary school, constituting approximately a quarter of a full year's work.

Candidates who are unable to present certificates must pass the entrance examinations, which are regularly held in May of each year.

But (b) persons desirous of taking one or more of the professional courses, without becoming candidates for a degree, may be admitted as special students on the presentation of satisfactory evidence that they are qualified to pursue the work to advantage.

Students who have begun their college course in another college may transfer their registration to Teachers College, provided they meet all the requirements for graduation specified below.



### ADMISSION TO ADVANCED STANDING.

Students who have pursued courses of study in other colleges or universities of approved rank will receive advanced credit for such work on the presentation of certificates.

Graduates of approved Normal Schools, Training Colleges, or Technical Schools, and teachers of experience who have studied privately, will be admitted to such advanced standing as the courses they have pursued warrant.

### THE TEACHERS COURSE.

The full college course for the training of teachers comprises the following educational divisions, the first two of which are made up of prescribed studies, the third of electives:

(a) A foundation of 25 hours of general culture studies, prescribed in accordance with the view that a teacher's preparatory training should omit no one of the principal elements of culture.

(b) A minimum of ten hours of professional training courses.

(c) Twenty-five elective hours of special information courses and further training courses.

In recognition of the professional training and the high number of prescribed hours of study, graduates of the Teachers College will receive, in addition to the Bachelor of Arts degree, a Teacher's Diploma. Both are conferred by the University.

An "hour" of study represents one hour of recitation or lecture work per week for one academic year, or its equivalent.

### GRADUATION.

To be recommended for a Bachelor of Arts degree and a Teacher's Diploma, the student must complete courses of study aggregating at least sixty hours. Thirty-five of these hours are in prescribed studies, and the remainder in electives. The prescribed studies are the following:

#### (a) In general culture subjects:

	Hours.
English .....	3
Mathematics or Science .....	3
French, German, Latin or Greek .....	3
History .....	3
Psychology and Logic .....	3
Philosophy .....	5
Languages or Sciences .....	5

*(b) In professional subjects:*

	Hours.
History of Education.....	2
Principles of Education } .....	3
Educational Psychology } .....	
Child Study and School Hygiene, or } .....	2
Principles of Secondary Education } .....	
Class-room Management and Supervision, or } .....	1
School Administration } .....	
Observation and Practice Teaching.....	2

(For further definition of these requirements, see the introductory paragraph under "Education," page 116.)

The electives should be chosen with direct reference to the subjects which the student wishes to teach. They are accordingly subject to the following restrictions:

All regular students must complete before graduation at least 9 hours in a Major, and at least 5 hours in a Minor subject, in addition to the first required course, if any, in the same subject.

As a Major, any one of the following subjects, or group of subjects, may be chosen: English, Latin, Greek, French, German, Mathematics, Physical Science, Biological Science, History, Economics and Political Science, Philosophy and Psychology.

As a Minor, choice may be made of any one of the other subjects in the same list, or of Education.

#### THE TEACHER'S DIPLOMA.

The Teacher's Diploma is granted in connection with the Bachelor of Arts degree upon the fulfillment of the following conditions: *a.* The student must have satisfactorily completed the courses of study defined in the preceding paragraph. *b.* He must, in the judgment of his instructors, also possess other qualifications essential to success in teaching.

The Diploma is also given in connection with higher degrees, provided a graduate student has taken a major or minor in Education, and has also satisfied the requirements *a* and *b* above, or in lieu of *a* has completed an equivalent amount of pedagogical and other work in another institution.

#### UNIVERSITY SCHOLARSHIPS.

Holders of the Kendall Scholarship and the University Scholarships may register in Teachers College on the same terms as in other departments of the University. For particulars see page 68.



### PRACTICE TEACHING.

Ample opportunity will be afforded for practice in teaching by (a) attendance upon observation classes conducted by experienced teachers, and (b) actual practice in teaching under the supervision and subject to the criticism of teacher critics.

### EXPERIMENTAL WORK.

Teachers College maintains a psychological laboratory for introductory experimental work. The equipment is specially adapted to the investigation of problems of interest to students of education.

The school system of a large city, moreover, offers abundant opportunity for observation, and for the statistical study of methods and other practical educational problems.

### TEACHERS COLLEGE LIBRARY.

The department library of Teachers College is supplied with the most important reference books and periodicals in Education, Psychology, and Philosophy, together with the principal Reports, etc. The reading room is open from 9 a. m. to 6 p. m., each day of the University calendar year. In addition, books may be withdrawn over night and from Saturday to Monday. For a statement of other library facilities see "University Library," page 38.

### TEACHERS APPOINTMENT BUREAU.

The Teachers College maintains a Teachers Appointment Bureau for the purpose of aiding students who are studying, or have studied, in the Teachers College, or in the College of Arts and Sciences, to secure positions as teachers. This service is performed gratuitously, in the interest both of students and of superintendents of schools and boards of education wishing to employ teachers. Communications should be addressed to the "Teachers Appointment Bureau," Teachers College, The George Washington University.

## Department of Arts and Sciences.

### COURSE OF INSTRUCTION.

#### UNIVERSITY SUBJECTS.

University Subjects are divided into three sections.

First-section courses can be taken by third or fourth year students only by permission of the Dean and the professor in charge of the subject. They may sometimes be recommended to graduate students, but are not counted toward the higher degrees. The courses in the second section are in general for advanced students, candidates for the bachelor's degrees; they serve, however, with additional work as minors for the higher degrees, provided they have not already counted toward a degree. They may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are in general for graduate students only, candidates for one or other of the higher degrees. They are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor may withdraw the course. First-section courses are numbered 1 to 19, inclusive; second-section courses from 20 to 39, inclusive; third-section courses are numbered on from 40. The number of hours, unless otherwise specified, indicates hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one academic year; laboratory hours in Chemistry count one-third unit each, in other subjects one-half unit each. Laboratories and drawing-rooms will be open from 9 a. m. till 10 p. m., with competent assistants in charge to direct students. No student is admitted to a course unless he fulfills all of the preliminary requirements for the course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations.

#### ASTRO-PHYSICS.

FREDERICK EUGENE FOWLE, JR.....Lecturer

##### *Third Section. Primarily for Graduates.*

44. A lecture course on the astro-physical instruments employed in modern research. Mr. FOWLE.



**BACTERIOLOGY AND PATHOLOGY.**

FREDERICK FULLER RUSSELL, M.D.....Professor

*Third Section. Primarily for Graduates.*

40. Bacteriology. Special studies and practical research work. Professor RUSSELL.

**BIOLOGICAL SCIENCES.**

PAUL BARTSCH, M.S., Ph.D.....Professor  
 ALBERT MANN, A.M., Ph.D.....Professor  
 JULIA THECKLA MACMILLAN, A.M.....Assistant in Zoölogy

**ZOÖLOGY.***First Section. Primarily for Undergraduates.*

1. Systematic Zoölogy. I. Invertebrates. This includes lectures and laboratory work. The lectures in their scope cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution. Lecture, one hour; laboratory, two two-hour periods. Professor BARTSCH.

2. Systematic Zoölogy. II. Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrata, and correlated with these is the study and dissection of typical specimens of each group. Open only to students having completed Course 1. Professor BARTSCH.

*Second Section. For Undergraduates and Graduates.*

20. Practical Zoölogy. A lecture course illustrated with lantern slides and demonstrations. In this course only beneficial and injurious animals of all classes will be considered, especial stress being laid upon the problems of preservation and extermination. The course aims to expound the economic side of zoölogy. Open to all students. One hour. Professor BARTSCH.

23. Ornithology. A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms. Lecture, one hour; laboratory, one two-hour period. Professor BARTSCH.

Laboratory courses in histology and physiology will be arranged for competent students.

## BOTANY.

*Third Section. Primarily for Graduates.*

40. Original investigation in (a) Economic Botany, Materia Medica, etc.; (b) Parasitism and Monstrosities; (c) Researches in Physiology of single groups; (d) Comparative Organography. Professor MANN.

## CHEMISTRY.

CHARLES EDWARD MUNROE, Ph.D.....Professor  
FRANK WIGGLESWORTH CLARKE, Sc.D., Professor of Mineral Chemistry  
HARVEY WASHINGTON WILEY, Ph.D., M.D.,

Professor of Agricultural Chemistry

EDWARD GRANT SEIBERT, M.D.....Assistant Professor of Chemistry  
N. MONROE HOPKINS, Ph.D.....Assistant Professor  
EDWIN ALLSTON HILL, Ph.D.....Assistant Professor  
THOMAS MALCOLM PRICE, Ph.D.....Assistant Professor  
OTIS DOW SWETT, M.S.....Assistant Professor  
HIRAM COLVER McNEIL, Ph.D.,

Assistant Professor of Physical Chemistry

*First Section. Primarily for Undergraduates.*

1. General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. *Tu., Th., Sat.*, at 4.50. Professor MUNROE, Assistant Professor SWETT.

2. Laboratory Practice. A laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two three-hour periods. *Tu., Th.*, at 1.30 or at 7. Professor MUNROE, Assistant Professor HILL, Assistant Professor SWETT.

3. Preparation and Study of the Properties of Chemical Substances. A laboratory course. Two three-hour periods. *Tu., Th.*, at 1.30 or at 7. Professor MUNROE, Assistant Professor SWETT.

4. Assaying and Metallurgy of the Precious Metals carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months. Professor MUNROE, Assistant Professor SWETT.

5. Lectures on the Principles of Analysis. One hour. Professor MUNROE.

6. Metallurgy of Iron and Steel. A course of lectures and readings. *Tu.*, at 5.40. Professor MUNROE.

7. Qualitative Analysis. A brief course intended primarily for students in engineering. Two three-hour periods. *Tu., Th.*, at 1.30 or at 7. Professor MUNROE, Assistant Professor HILL, Assistant Professor SWETT.



*Second Section. For Undergraduates and Graduates.*

20. Qualitative Analysis. A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Professor MUNROE, Assistant Professor PRICE, Assistant Professor SWETT.

21. Quantitative Analysis. A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Professor MUNROE, Assistant Professor PRICE, Assistant Professor SWETT.

23. Advanced course in Organic Chemistry. *Wed., Fri.*, at 4.50. Professor MUNROE, Assistant Professor SWETT.

24. Advanced course in Organic Chemistry. A continuation of Course 23. *Th., Sat.*, at 5.40. Professor MUNROE, Assistant Professor SWETT.

25. Chemistry of the Carbon Compounds. A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Professor MUNROE, Assistant Professor SWETT.

26. Physical Chemistry. A lecture course designed to be an introduction to physical chemistry, and to treat of the modern theories of chemistry from the physical standpoint. In this course special attention is given to the ionic theory, electro-chemistry, the law of mass action, and the phase rule. Two hours. Assistant Professor McNEIL.

27. Stereo-chemistry. This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Assistant Professor HILL.

28. Biochemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Three three-hour periods. Assistant Professor PRICE.

30. Physiological Chemistry. A series of lectures and recitations on the proximate principles of the human body. Two hours for one term.

31. Clinical Analysis. A laboratory course to accompany 30. Professor MUNROE, Assistant Professor SEIBERT.

*Third Section. Primarily for Graduates.*

40. Explosive Substances. Professor MUNROE.

41. Analytical Methods. Professor MUNROE.

43. Development of the Theory of the Constitution of the Natural Silicates. Professor CLARKE.

44. Special Researches in Agricultural Chemistry. Professor WILEY.

45. Special Researches in Electro-chemistry. Assistant Professor HOPKINS.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington. These meetings are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p. m. Also the meetings of the Chemical Society of the George Washington University, which is a most active and efficient student organization.

### CLASSICAL ARCHÆOLOGY.

MITCHELL CARROLL, Ph.D. .... Professor

#### *Third Section. Primarily for Graduates.*

40. Homer and the Greek Epic.

41. Greek Aesthetics: Plato and Aristotle.

42. Topography and Monuments of Athens and Rome.

43. A special course of illustrated lectures on selected topics in the History of Greek Art, with conferences, open to graduates, undergraduates, and auditors, will be given during the second half-year. Definite announcement later.

Professor Carroll will meet his students in The Octagon and in the Library of Congress.

### CLASSICAL LANGUAGES AND LITERATURES.

CHARLES SIDNEY SMITH, Ph.D. .... Professor

#### GREEK.

#### *First Section. Primarily for Undergraduates.*

A. Elementary Course. For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirement in Greek, with the exception of Homer. Three hours. Not given in 1911-12.

B. Homer: Iliad I-IV or Odyssey V-VIII. For students who have taken Course A and desire to prepare themselves to enter Course 1. Two hours.

1. Herodotus (selections); Lysias (selected orations); Euripides (Alcestis); Greek prose composition. *Mon., Wed., Fri.*, at 2.30.

2. Xenophon (Memorabilia); Thucydides (Book VII); Sophocles (Antigone). *Mon., Wed., Fri.*, at 11.

#### *Second Section. For Undergraduates and Graduates.*

20. Plato (selections, including the Apology and Crito); Aristophanes (Clouds or Frogs). Two hours.



21. Demosthenes (selected orations); Lucian (selected dialogues); Homer (selections). Not given in 1911-12.

### LATIN.

#### *First Section. Primarily for Undergraduates.*

1. Livy (Books I and XXI); Cicero (De Senectute); Horace (Odes and Epodes); Latin prose composition. *Mon., Wed., Fri.*, at 3.30
2. Cicero and Pliny (selected Letters); Horace (Satires and Epistles); Martial (selections). *Mon., Wed., Fri.*, at 1.30.

#### *Second Section. For Undergraduates and Graduates.*

20. Tacitus (selections); Terence (Phormio); Plautus (Captivi). Two hours. Not given in 1911-12.
21. Roman Literary Criticism: Quintilian (Book X) and Horace (Ars Poetica); Catullus, Tibullus, and Propertius. *Tu., Th.*, at 11.
22. Advanced Latin Composition and Reading at Sight. Practice in Latin expression and style. *Th.*, at 1.30.

#### *Third Section. Primarily for Graduates.*

The work in this Section is designed to afford discipline in the methods of philological criticism, with special reference to the interpretation of classical authors, and will include opportunities for original research on the part of competent students. In order to make the work as helpful as possible for those who expect to become teachers, the center of study each year will be one of the authors usually taught in the secondary schools. With the approval of the instructor, properly qualified Seniors may be admitted to these courses. The authors selected are as follows:

40. Vergil, and Roman Epic Poetry. *Tu.*, 4.50-6.30.
41. Cæsar, and the Roman Historians. Given in 1910-11. Not given in 1911-12.
42. Cicero, and Roman Oratory. Given in 1909-10. Not given in 1911-12.

### SECTION III—ECONOMICS AND SOCIOLOGY.

HENRY PARKER WILLIS, Ph.D.....	Professor
CHARLES WILLIAM AUGUST VEDITZ, Ph.D.....	Professor
ROBERT RUSS KERN, A.B.....	Assistant Professor
JOHN BALL OSBORNE, A.M.....	Lecturer
JOHN WILMER LATIMER, LL.B.....	Lecturer
JOHN LEE COULTER, M.A.....	Lecturer
JESSE E. POPE, Ph.D.....	Lecturer

*Second Section. For Undergraduates and Graduates.*

20. GENERAL ECONOMICS.—An outline course in the principles of political economy, devoted mainly to the study of production and exchange under present-day conditions. Given in two sections. First half-year. *Mon., Wed., Fri.*, 11 a. m. (Section *a*); 5.40 p. m. (Section *b*), Mr. KERN.

21. THE ECONOMICS OF DISTRIBUTION AND CONSUMPTION.—A continuation of Course 20, devoted mainly to the problems of rent, interest, wages, and profits, and including an examination of competition, private property, luxury, saving, and speculation, in their effects upon human welfare. Given in two sections. Second half-year. *Mon., Wed., Fri.*, 11 a. m. (Section *a*); 5.40 p. m. (Section *b*), Mr. KERN.

22. GENERAL SOCIOLOGY.—An outline course in the principles of sociology, devoted mainly to the study of social origins and the development of existing social institutions, with special attention to social psychology. Two hours, first half-year. *Mon., Fri.*, at 4.50. Mr. KERN.

23. MODERN SOCIAL PROBLEMS.—A further analysis of modern social conditions with special studies of current questions in sociology. Prerequisite, the course in general sociology. Two hours, second half-year. *Mon., Fri.*, at 4.50. Mr. KERN.

24. THE HISTORY OF ECONOMIC THOUGHT.—A review of the development of economics as a science from the earliest times to the present. Lectures and library readings. Two hours, first half-year. *Th.*, 4.50 to 6.30. Not given in 1911-12. Mr. KERN.

25. CONTEMPORARY ECONOMIC THEORY.—An advanced course in the theory of economics in continuation of the preceding; a review of current economic doctrines with critical analysis. Two hours, second half-year. *Th.*, 4.50 to 6.30. Not given in 1911-12. Mr. KERN.

26. PUBLIC FINANCE.—A course in the development of budgetary and fiscal methods and principles. The history and tendencies of public expenditure under the Federal and State governments. The theory of taxation; administration of public domains, and industries; public debts. First half-year. *Tu., Th.*, 8.00 a. m. Professor WILLIS.

27. MONEY AND BANKING.—The history and theory of money; the production of the precious metals; the theory of prices and measurement of price fluctuations; monetary systems; the relation of the Treasury system to our money supply; the theory of credit and banking; the national bank system of the United States and the banking system of foreign nations. Second half-year. *Tu., Th.*, at 8.00 a. m. Professor WILLIS.

28. ACCOUNTING.—General principles of accounting. A text-book on accounting and hand-books dealing with accounting forms and methods



are used as guides. Much of the work is based upon library readings with suggested problems to be worked out and submitted. The course includes a study of the accounts of representative kinds of business and the methods of accounting applicable thereto. First half-year. *Mon., Fri.*, at 8.00 a. m. Professor WILLIS.

29. CORPORATION FINANCE.—The various sorts of corporation securities; methods of organizing and financing modern industrial enterprises; the nature of investment and speculation; stock and produce exchanges; the effect of speculative and investment operations on the staple industries. Second half-year. *Tu., Th.*, at 5.40 p. m. Professor WILLIS.

30. THEORY AND PRACTICE OF STATISTICS.—A conference course in the principles of statistics, with concrete examples of their applications; the graphic method; the use of averages; index numbers; and the special application of statistics to insurance; government statistical methods and publications in the United States and in the principal foreign countries. Lectures and reading. Not given in 1911-12. Two hours, first half-year. Professor WILLIS.

31. INTERNATIONAL TRADE.—A discussion of the theory and mechanism of international trade; a survey of the commerce of the world; the commercial relations of the United States. Two hours, first half-year. Not given in 1911-12. Mr. OSBORNE.

32. COMMERCIAL POLICIES.—Study of the trade and navigation policies of its principal commercial powers; organization and methods of their trade-promoting institutions; tariff systems of the world; history of American tariff legislation; commercial treaties and agreements of the United States; history of the policy of reciprocity; doctrine of the most favored nation. Two hours, second half-year. *Tu., Fri.*, at 8.00 a. m. Mr. OSBORNE.

33. COMMERCIAL AND MARITIME LAW.—An outline of the principles of the law relating to commercial transactions generally, including those peculiar to the sea, with more especial reference to the subjects of contracts, sales, bailments, agency, partnership, negotiable instruments, and common carriers. First half-year. *Tu., Th., Sat.*, 4.50 p. m. Mr. LATIMER.

34. COMMERCIAL AND INDUSTRIAL HISTORY.—The rise and progress of commerce from antiquity to modern times, with particular emphasis on the effects of commerce upon civilization and the relations between commercial and political development. The rise and progress of economic activities in the English colonies of North America and of the agricultural, commercial, and industrial growth of the United States. First half-year. Not given in 1911-12.

35. MODERN BUSINESS ORGANIZATION.—A study of the modern business, the present modes of producing and distributing commodities.

modes of controlling prices, systems of retailing, advertising, etc. Second half-year. *Wed.*, 5.40 p. m. Professor WILLIS.

36. COMMERCE, INDUSTRY, AND TRANSPORTATION OF THE UNITED STATES.—A study of the resources, industries, business activities, and internal and foreign commerce of the United States; the products of the various sections; the transportation systems by which they are interchanged or assembled for manufacturing and redistribution; manufacturing systems; domestic exchange; distribution to foreign countries; the markets in which exports are sold and from which imports are drawn. Two hours, first half-year. *Mon., Fri.*, 5.40 p. m. Professor WILLIS.

37. COMMERCIAL GEOGRAPHY AND BUSINESS ORGANIZATION.—The products, industries, and commerce of the various countries and sections of the world; the exchanges between climatic sections and between the great producing and manufacturing sections and countries of the world; the staple articles of commerce, their places of production and sale; manufacturing industries and the distribution of their products; the transportation and financial systems by which interchanges are facilitated; a comparative view of the commercial, economic, and financial conditions in the various sections and countries of the world. Two hours, second half-year. *Mon., Wed., Fri.*, at 5.40 p. m. Mr. AUSTIN and Professor WILLIS.

38. COÖPERATION AND RURAL ECONOMICS.—Economic principles governing and comparative advantages of individual, corporate, and coöperative organization in ownership of land, water rights, and farm equipment; in production, manufacturing, storing, and marketing of agricultural products; in buying of farm equipment and supplies; in credit, insurance, telephone, etc. Problems of farm labor; size, ownership, and value of farms, land titles, etc. Lectures, assigned readings, reports on special topics, quiz. First half-year. *Wed., Sat.*, 8.00 a. m. Dr. COULTER.

39. AGRICULTURAL CREDIT.—The importance of agricultural credit and its relation to other forms of credit will be discussed. Its history and development in the leading European countries will be traced and special emphasis will be laid on agricultural banks and credit, the status of agricultural credit in the United States and the applicability of European methods. Lectures and assigned readings. Second half-year. *Wed., Sat.*, 8.00 a. m. Dr. POPE.

SEMINAR IN AGRICULTURAL ECONOMICS.—A research course, designed for students who desire to do work in Agricultural Economics, conducted by the seminar method. Assigned readings and lectures will be given, but the main object will be to encourage and direct students in individual research. Hours to be arranged. Dr. POPE.



40. **TAXATION.**—Taxation, its administration and organization. The legal problems which arise in connection with taxation will be studied through typical cases. Two hours, second half-year. Not given in 1911-12. Professor WILLIS.

41. **ADVANCED ACCOUNTING.**—A special study of accounting principles in their application to specified classes of business. Prerequisite—the course in accounting. Second half-year. *Mon., Fri.*, at 8.00 a. m. Professor WILLIS.

42. **INSURANCE.**—The historical development of insurance; its economic aspects; fire, accident, and life insurance from the standpoint of internal organization; rates; policies. Two hours. Second half-year. Not given in 1911-12. Professor WILLIS.

43. **LABOR PROBLEMS.**—A brief sketch of the labor movement in the United States and of the aims and methods of trade unions, followed by a discussion of such problems as: Child labor; dangerous occupations; workingmen's insurance against sickness, old age, accidents, and unemployment; strikes and industrial conflicts; conciliation and arbitration; collective bargaining. Two hours, second half-year. *Tu., Th.*, 5.40 p. m. Mr. KERN.

44. **COMBINATIONS—TRUSTS.**—A discussion of the conditions which have favored the growth of large business combinations, the nature of their organization, their influence upon prices and productive efficiency, and the regulation and supervision of them. Two hours, first half-year. *Tu., Th.*, 5.40 p. m. Mr. KERN.

*Primarily for Graduates.*

**SEMINAR IN SOCIOLOGY.**—A research course for the detailed investigation of special sociological problems, suitable for those who are engaged in original investigation or in the preparation of a thesis. Hours to be arranged. Professor VEDITZ.

## ENGINEERING.

*PHILANDER BETTS, M.S., E.E.....	Assistant Professor of Electrical Engineering
EDWIN VIVIAN DUNSTAN, C.E.,	Assistant Professor of Civil Engineering
OSCAR ALEXANDER MECHLIN, C.E.....	Assistant Professor of Civil Engineering
FRANK CHARLES STARR, B.S....	Assistant Professor of Civil Engineering
CHARLES WARD MORTIMER, M.E.....	Assistant Professor of Electrical Engineering
HAYNER HASKELL GORDON, E.E., Ph.D.....	Instructor in Mechanical Engineering

\*Absent on leave.

ROBERT WILBUR MORSE, S.B.....Instructor in Mechanical Engineering  
MARK RITTENHOUSE WOODWARD, E.E.....Instructor in Electrical  
Engineering

### APPLIED MATHEMATICS.

#### *Second Section. For Undergraduates and Graduates.*

20. Analytical and Applied Mechanics. (1) Statics: including the composition, resolution, and equilibrium of forces; center of gravity; friction; machines. (2) Kinematics and Kinetics: including rectilinear and curvilinear motion; motion under action of variable forces and in resisting media; constrained and rotary motion; impact; work and energy; moment of inertia. Four hours a week, first half-year. Assistant Professor DUNSTAN.

21. Hydraulics. The theoretical principles of hydraulics: including hydrostatics, flow through orifices, over weirs, through pipes and in open channels, and the dynamic pressure of water. Four hours a week, first half-year. Assistant Professor DUNSTAN.

22. Mechanics of Materials and Theory of Elasticity: including elastic and ultimate strength and deformation; simple, cantilever and continuous beams; columns, torsion; combined stresses; compound columns and beams: including reinforced concrete; resilience; work; fatigue; mathematical theory of elasticity. Four hours a week, second half-year. Assistant Professor MECHLIN.

### CIVIL ENGINEERING.

#### *First Section. Primarily for Undergraduates.*

1. Surveying and Mapping. This course includes the theory and use of instruments; land, topographic, hydrographic, mining, city, and geodetic surveying; measurement of volumes, projection of maps, etc. Two hours a week. Field work, usually on Saturday. Assistant Professor STARR.

2. Railroad Engineering. Railroad curves and earthwork; location of about two miles of railroad, including reconnaissance, preliminary and final locations, construction of contour maps and profiles, computation of earthwork, design of culverts, etc.; laying out curves; track work, etc. Two hours a week. Field work, usually on Saturday.

3. Highways and Pavements. Location of highways; construction, improvement and maintenance of roads and pavements; curbs, gutters, sidewalks. One lecture and one design period during the first term. Assistant Professor MECHLIN.

4. Materials of Construction. A study of the properties of stone, brick, cement, concrete, wood, iron, steel, etc., with reference to processes of manufacture. The course is supplemented by a number of prac-



tical tests made by the students. Two lectures for first term and one lecture and one laboratory period for second term. Assistant Professor MECHLIN.

5. Surveying Instruments. A two-months' course for Mechanical and Electrical Engineering students, covering the use of the compass, transit, and level. Lectures and field exercises, two hours per week. Assistant Professor STARR.

6. Foundations. A two-months' course for Mechanical and Electrical Engineering students, covering the general principles of foundation construction and the materials used. Two hours a week. Assistant Professor MECHLIN.

8. A course in Practical Astronomy for Civil Engineering students. Special attention is given to the methods of determining latitude, longitude, azimuth and time with the engineer's transit; observations for each being a required part of the course. Two lecture-recitation periods per week for one term. Assistant Professor STARR.

*Second Section. For Undergraduates and Graduates.*

20. Masonry Construction. A course in the use of cement, brick, stone, and concrete, the design of foundations, retaining walls, dams, bridge piers and arches. Included in this is a short course in stereotomy. Two lectures and two design periods per week. Assistant Professor MECHLIN.

21. Hydraulic Engineering. The design and construction of water-power plants and irrigation works. Flow of rivers; rainfall and runoff; methods of development; hydraulic motors; power transmission. Irrigation plans; distributing systems; water rights and irrigation law. Four lectures and two design periods per week, second term. Assistant Professor DUNSTAN.

22. Theory of Structures. A course covering the determination of stresses in framed structures by graphical and by analytical methods. The first term is devoted to beams and roof trusses; the second to bridge trusses under uniform and wheel loads. Three lectures and two design periods per week. Assistant Professor DUNSTAN.

23. Theory of Structures. The theory of steel design; the design of a roof truss, of a plate girder and a pin connected bridge truss and a study of the theory and design of suspension, continuous, cantilever, and arch bridges, and the details of steel-mill and office-building construction. Three lectures and two design periods per week. Assistant Professor MECHLIN.

24. Sanitary Engineering. This course treats of the drainage of buildings and lands; the treatment and disposal of sewage and the sewerage of cities and towns; public water supply and methods of water purification. Three lectures and one design period per week. Assistant Professor MECHLIN.

*Third Section. Primarily for Graduates.*

40. Advanced Masonry. A course in the theory and design of reinforced concrete structures. Assistant Professor MECHLIN.

41. Advanced Masonry. The theory of retaining walls and arches. Assistant Professor MECHLIN.

42. Testing of Materials. This course involves original research upon assigned topics. Assistant Professor MECHLIN.

43. Water-power Development. A comparative study of the principal water-power developments of the United States and Europe. The course consists largely of assigned readings and reports thereon. Assistant Professor DUNSTAN.

## ELECTRICAL ENGINEERING.

*First Section. Primarily for Undergraduates.*

1. Elementary Mathematical Theory of Electricity and Magnetism; Direct Current Motors and Generators; Design work; Elements of Electrical Engineering, and problems.

For about one-third of the session elementary electricity and magnetism is studied, with especial attention to the needs of engineering students. This is followed by a study of direct current generators and motors, covering the laws of the magnetic circuit as applied to the dynamo, and including the design of electrical apparatus and machinery. During the last part of the course a study of the elements of electrical engineering is taken up and an introductory study of alternating currents is begun. Numerous problems are assigned throughout the course. Five hours a week. Assistant Professor MORTIMER.

4. Electrical Measurements. A laboratory course for Juniors. Selected experiments. Foster's Hand-book and special laboratory notes are used for reference. Six hours a week, first term. Assistant Professor MORTIMER.

5. Electrical Laboratory. Experiments and tests involving the operation of direct-current dynamos and motors, including tests of motors in service, operating elevators, street cars, and machinery of various kinds. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering." Six hours a week, second term. Assistant Professor MORTIMER.

6. Industrial Electricity. A practical course intended for Juniors in Civil Engineering, embracing the selection and operation of electrical machinery, electrical railways and other applications of electric motors. Two hours a week for the first term. Mr. WOODWARD.

7. Electrical Engineering. A course in theoretical and applied electricity intended for Seniors in Mechanical Engineering. It embraces the selection and operation of electrical machinery, the location, construc-



tion, and operation of power plants, electric railways and transmission lines, the use of electric motors for driving machinery, and the working of storage batteries, elevators, hoists, and cranes. Three hours a week. Mr. WOODWARD.

8. Electrical Design. A course for Seniors in Electrical Engineering, embracing calculation and design of electrical machinery and accessories, including switchboards, rheostats, instruments, and arrangement of same. One recitation period and one drawing period throughout the year.

*Second Section. For Undergraduates and Graduates.*

21. Alternating Current Theory and Machinery. A course for Seniors in Electrical Engineering, covering the principles of single as well as polyphase currents, including study of machines, circuits, transformers, etc. Four hours a week. Assistant Professor MORTIMER.

22. Electrical Distribution. A course for Seniors in Electrical Engineering, covering the whole field of distribution of electricity for light and power. Text-book: Crocker's Electric Lighting; second volume, "Distribution System." Two hours a week. Assistant Professor MORTIMER.

23. Electrical Applications. A course for Seniors in Electrical Engineering, covering the more important applications of electricity, such as motive power, including elevators, hoists and machine drive, telephony, telegraphy, electro-metallurgy, etc. One hour a week. Mr. WOODWARD.

24. Advanced Laboratory Work for Seniors in the Electrical Engineering Course. Covers test and experimental work with direct and alternating currents, tests of machines, circuits, transformers, circuits containing inductance and capacity, measurement of power in alternating current circuits, plotting of curves, etc. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering," with Foster's Electrical Engineer's Hand-book for general reference. Six hours a week. Assistant Professor MORTIMER.

25. Inspection of Plants and Industrial Works. In the vicinity of Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, Government laboratories devoted to special work, etc., which afford students of Electrical Engineering an opportunity to familiarize themselves with nearly all types of apparatus in use. The visits are followed by class discussion based on written descriptions submitted by the students.

26. Electric Lighting and Illumination. A course for Seniors in Electrical Engineering covering the subject of electric lighting and illumination, including detailed study of different types of lamps, shades, arrangement of light sources, effect of walls, etc. Two hours per week, first term. Mr. WOODWARD.

27. Electric Railways. A course for Seniors in Electrical Engineering covering the theory and practice of modern, direct and alternating current railways. Two hours a week, second term.

28. High Frequency Currents. A lecture course covering the theory of high frequency and oscillatory currents and their application to wireless Telegraphy and Telephony. The condenser discharge, the theory of resonance in coupled circuits, and electromagnetic waves will be treated. The design of wireless telegraph and telephone apparatus will also be discussed. The class will meet in the laboratory from time to time to familiarize themselves with the use of wireless apparatus. One period a week. Dr. GORDON.

Juniors and Seniors in Electrical Engineering are expected to attend the monthly meetings of the Washington Branch of the American Institute of Electrical Engineers.

*Third Section. Primarily for Graduates.*

41. Advanced Dynamo Design. This comprises the more rigid calculation of the magnetic circuit, the estimation of the electrical and mechanical losses, together with an exposition of the elements of mechanical design. Assistant Professors BETTS and MORTIMER.

42. Advanced Course in the Mathematical Theory of Alternating Currents. Assistant Professors BETTS and MORTIMER.

43. Advanced Course in Polyphase Currents. Assistant Professors BETTS and MORTIMER.

44. Advanced Laboratory Work, Alternating (including Polyphase) Current Apparatus. Assistant Professors BETTS and MORTIMER.

GRAPHICS.

*First Section. Primarily for Undergraduates.*

1. Mechanical and Freehand Drawing. A general course embracing the care and use of instruments; orthographic and isometric projections; sections and intersections; curve plotting; sketching of simple machine details; freehand lettering; principles of working drawings. Six hours a week in the drawing-room. Assistant Professor STARR.

2. Advanced Mechanical Drawing. A course in working drawings especially designed for Electrical and Mechanical Engineering students. Drawing-room rules and practice; conventional forms and standards; arrangement of views and sections; freehand shop-sketches; detailing from sketches, models and general drawings; proportioning by empirical formulas. Six hours a week in the drawing-room.

8. Descriptive Geometry. A study of the representation of lines, surfaces, and solids, and of their relations; tangencies, intersections, and developments; warped surfaces; shades and shadows; original con-



struction problems. Two lectures and one drawing period per week. Assistant Professor STARR.

10. Topographic Drawing. A general course in plotting, topographic symbols, and lettering to accompany the work in surveying. One drawing period per week. Assistant Professor STARR.

*Third Section. Primarily for Graduates.*

40. Advanced Graphic Statics. A study of the graphical analysis of higher structures, with special reference to the method of influence lines. Assistant Professor DUNSTAN.

MECHANICAL ENGINEERING.

*First Section. Primarily for Undergraduates.*

1. Mechanism. A course in the systematic study of the kinematics of machinery, in which mechanical movements are reduced to scientific analysis. Carefully developed problems and diagrams of changes of position and speed in mechanisms are constantly used.

Some attention is given to the design of gear teeth, and twenty-five hours in the second term are devoted to valve gears for steam engines. Three lecture-recitation hours and two drawing hours per week during the Sophomore year. Mr. MORSE.

6. Engineering Drawing. This course provides for the application of the principles taught in the courses of Mechanism and Steam Engineering to specific problems. Practice is given in the design of valve gears and quick return motions, and in the determination of velocity diagrams for special engine and other linkages. There is also included the complete working drawings for a steam boiler. Six drawing hours per week during the Junior year. Mr. MORSE.

7. Machine Design. This course is an application of principles already acquired to problems in design, each student being required to complete every detail of the design undertaken.

The subjects taken as design problems are: The design of a boiler; shafting; a series of shaft couplings; an automobile transmission, and a punching machine.

The constructive details and calculations are discussed and the limitations of theoretical and empirical formulas pointed out. One lecture-recitation hour and five drawing hours per week during the Senior year. Mr. MORSE.

9. Engineering Laboratory. A course of practical work in testing general engineering apparatus for efficiency. The work consists in indicating steam engines; determining the evaporative efficiency of boilers; tests on the strength of materials; measurement of the flow of water; gas-engine brake tests; refrigeration tests, and fuel value determinations. Six laboratory hours per week for the last half of the Junior year.

10. Engineering Laboratory. This course is a completion of Course 9. Six hours a week during the Senior year.

*Second Section. For Undergraduates and Graduates.*

20. This course deals with the principles of thermo-dynamics; the properties of gases and vapors, especially steam, and the flow of steam through nozzles. The application of the above principles is discussed and the simple and compound steam engine and the steam turbine are studied. Three lecture-recitation hours per week during the first half of the Junior year. Dr. GORDON.

21. Boilers and Power Plant Accessories. This course is devoted to a study of Boilers, Condensers, Feed Pumps, Economizers, Stokers, and other power-plant accessories. The design of power plants will be discussed. Three lecture-recitation hours per week for the last half of the Junior year. Dr. GORDON.

22. Gas Engines and Compression and Refrigeration Machinery. This course deals with the theory and practice concerning the internal combustion motor. During the second half of the term the theories and principles involved in compression machinery and artificial refrigeration will be discussed. Three lecture-recitation hours per week for the last half of the Senior year. Dr. GORDON.

23. Hydraulic Machinery. This course provides for an elementary study of hydraulic prime movers and pumping machinery. It includes a discussion of the theory and design of turbines and turbine blades for low and high heads, and turbine governors.

The course will also treat of impulse wheels; water motors of the piston type; machinery for the utilization of hydraulic pressure; hydraulic pressure pumps, and hydraulic presses; hydraulic tools; pumps operated by steam, electricity, or power; and high duty pumps and water meters. Two lecture-recitation hours per week for the first half of the Senior year. Mr. MORSE.

24. Cotton Machinery and Machine Tools. A study of the mechanisms found in cotton machinery and machine tools. Two lecture-recitation hours per week throughout the Junior year. Mr. MORSE.

26. Dynamics of Machines. A course including a number of the principal applications of Dynamics to moving machinery, such as governors, fly-wheels, and the effect of the reciprocating parts of the steam engine. Two lecture-recitation hours per week throughout the Senior year. Mr. MORSE.

27. Power-plant Design. This course provides for the design with complete plans and specifications of a power plant of industrial proportions by the student. One lecture-recitation hour and six drawing hours per week for the first half of the Senior year. Dr. GORDON.

28. Industrial Management. A course dealing with the business systems of manufacturing establishments.



The work includes a study of the organization and relations of the various departments of an industrial establishment, both in the office and in the workshop. It also discusses the conduct of accounts, the methods of superintendence and of compensating labor, the determination of the costs of production, and the effect on costs of different systems of distributing indirect expenses. Two lecture-recitation hours per week for the last half of the Junior year. Mr. MORSE.

### ENGLISH.

WILLIAM ALLEN WILBUR, A.M. .... Professor  
 \*DE WITT C. CROISSANT, Ph.D. .... Assistant Professor  
 EDWIN WILEY, Ph.D. .... Lecturer

#### *First Section. Primarily for Undergraduates.*

1. English Rhetoric. A study of the principles of self-expression through language with practice in composition. *Tu., Th., Sat.*, at 10. Professor WILBUR.

2. English Rhetoric. Parallel with Course 1. *Mon., Wed., Fri.*, at 4.50. Professor WILBUR.

NOTE—Credit for Course 1 or 2 is requisite for admission to any other course in English.

3. Humanistic Studies (1911-12). Advancement of Learning. Book I; Holy Dying; Pepys' Diary; Evelina; The Prelude; Waverly; Essays of Elia; Confessions of an English Opium Eater; Kim; Poetry of Longfellow. *Tu., Th., Sat.*, at 9.00. Professor WILBUR.

4. Humanistic Studies (1911-12). Ecclesiastical Polity, Book I; Arcopagitica; Letters of Junius; Pride and Prejudice; Endymion; Vanity Fair; Lorna Doone; Kidnapped; Virginibus Puerisque; American Short Stories. *Mon., Wed., Fri.*, at 5.40. Professor WILBUR.

#### *Second Section. For Undergraduates and Graduates.*

22. Shakespeare. The Comedies. Not given in 1911-12.

23. Shakespeare. The Tragedies. *Mon., Wed., Fri.*, at 1.30. Professor WILBUR

The Temple edition of Shakespeare is recommended.

25. The Idylls of the King (First Term). The Ring and the Book (Second Term). *Tu., Th., Fri.*, at 3.50. Professor WILBUR.

#### *Third Section. Primarily for Graduates.*

44. English Seminary. Graduate students engaged in individual research will discuss assigned topics in a seminary of English studies, meeting each week at an appointed time.

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\*Absent on leave.

## GEOLOGY AND MINERALOGY.

GEORGE PERKINS MERRILL, Ph.D.....Professor  
 RAY SMITH BASSLER, Ph.D.....Assistant Professor

*First Section. Primarily for Undergraduates.*

1. Mineralogy. Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. *Tu., Th., at 5.40.*

2. Geology. Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-books: Scott's Introduction to Geology, Merrill's Rocks, Rock Weathering, and Soils. *Mon., Fri., at 5.40.*

*Third Section. Primarily for Graduates.*

40. Economic Geology. [Geology 1 and 2 and Chemistry 1 are prerequisite for this course.] The course covers the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc.; and (3) the non-metallic minerals as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. Text-books: Weed's Translation of Beck's Nature of Ore Deposits; Merrill's Stones for Building and Decoration and the Non-metallic Minerals. *Mon., Fri., at 4.50.*

41. Paleontology. A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology.

Advanced study in Geology, both systematic and applied, is arranged to cover two years. Only graduates will be admitted to Courses 42 and 43.

42. Advanced Geology and Paleontology. The student in this first-year course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to



the examination of geological materials, and to familiarizing himself with the literature of the subject.

43. Advanced Paleontology and Stratigraphic Geology. A continuation of Course 41. Besides the study of paleontological methods, the student is expected to pursue some special line of investigation in order to fit himself for original research.

### GERMANIC LANGUAGES AND LITERATURES.

HERMANN SCHOENFELD, Ph.D., LL.D. .... Professor  
ALFRED FRANCIS WILLIAM SCHMIDT, A.M. .... Professor

#### *First Section. Primarily for Undergraduates.*

1. Elementary. The essentials of German grammar; translation of prose and poetry; composition and dictation. This course is open only to beginners, and the work done is equivalent to that of a two years' course in high schools and academies of good standing. *Tu., Th., Sat., at 11.* Professor SCHOENFELD.

2. Parallel with Course 1. *Tu., Th., Sat., at 4.50.* Professor SCHMIDT.

3. Selected texts from the foremost contemporary authors will be read and one or more of the German classics carefully studied. The work in grammar and composition done in elementary German will be continued on a more advanced plane, with special emphasis on syntax, word-formation, and the relationship of German and English. This course is equivalent to the advanced German of the admission requirements, and it is open only to students who have passed Course 1 or 2, or have satisfied the admission requirement in elementary German. *Mon., Wed., Fri., at 11.* Professor SCHOENFELD.

4. Parallel with Course 3, except that in the second term scientific German is read. *Tu., Th., Sat., at 5.40.* Professor SCHMIDT.

5. Advanced course in German syntax; principal difficulties of the language; idioms; synonyms; extensive translations of the best English prosaists into German; essays; selected advanced prose; classical reading and literature; German history. Special training for advanced students in the historical and economic departments. Open to students who have passed Course 3 or have satisfied the admission requirement in advanced German. *Mon., Wed., Fri., at 1.30.* Professor SCHOENFELD.

#### *Second Section. For Undergraduates and Graduates.*

20. History of German Literature from the beginnings till 1648. Col-litz's Selections and Priest's German Literature. Lectures, readings, essays. *Mon., Wed., Fri., at 10.* Professor SCHOENFELD.

21. Literary awakening in Germany in the time of Frederick the Great; critical study of the literary centers—Zürich, Leipzig, Göttingen,

Berlin. The Storm and Stress period, and the youthful works of Schiller and Goethe. *Tu., Th., Sat.*, at 10. Professor SCHOENFELD.

The intervening periods of literature reserved for subsequent years.

*Third Section. Primarily for Graduates.*

40. Seminar. Critical study of Klopstock's Odes and First Three Cantos of Messias. Professor SCHOENFELD.

41. Epic and lyrical poetry in the twelfth and thirteenth centuries, as exemplified in the Nibelungenlied and in Walter von der Vogelweide. Professor SCHOENFELD.

42. Gothic. Introduction to comparative Indo-European grammar. Two hours. Professor SCHMIDT.

43. Old High German. The development of the German language. Two hours. Professor SCHMIDT.

Only one of the foregoing two courses (42, 43) is given in any one year.

For notice of the Richard Heinzel Germanic Library, see page —.

### HISTORY.

CHARLES CLINTON SWISHER, Ph.D., LL.D.....	Professor
LEVI RUSSELL ALDEN, A.M.....	Assistant Professor
GEORGE MORTON CHURCHILL, A.M.....	Instructor
LESLIE CLEVELAND McNEMAR, A.B.....	Instructor
JOSEPH PLASS, A.M.....	Instructor
WILLIAM HAMILTON, Ph.D.....	Lecturer

*First Section. Primarily for Undergraduates.*

1. Mediæval History. A history of the settlement of the Germanic tribes in the territory of the Empire, with a study of feudal institutions through the movements of the Crusades; texts, with assigned readings. First half-year. *Mon., Wed., Fri.*, at 2.30. Professor SWISHER.

2. Mediæval History. A history of the evolution of national government through the periods of the Renaissance and the Protestant Revolution; texts and assigned readings. Second half-year. *Mon., Wed., Fri.*, at 2.30.

3. Modern European History. A study of the European States under the new conditions resulting from the discovery of America and the opening of the oriental trade routes, extending through the period of the French Revolution; texts, lectures, and collateral readings. First half-year. *Mon., Wed., Fri.*, at 3.30. Professor SWISHER.

4. A continuation of the preceding through the revolutionary movements of the nineteenth century, with a more detailed study of recent issues; texts, lectures, and collateral readings. Second half-year. *Mon., Wed., Fri.*, at 3.30.



*Second Section. For Undergraduates and Graduates.*

23. European History, 1815 to 1870. Text-book, lectures, and reports on collateral reading. Besides the history of Europe proper much attention is given to matters of larger European interest, especially to colonization and international relations with reference to South America, Asia, and Africa. First half-year. *Mon., Wed., Fri.*, at 5.40 p. m. Mr. McNEMAR.

24. European History, 1870 to the present. Continuation of the preceding, studying the most recent developments with special attention to the forms of government, political questions, and current issues. Second half-year. *Mon., Wed., Fri.*, 5.40 p. m. Mr. McNEMAR.

25. English Constitutional History. A history of the evolution of parliamentary government, with incidental study of social and industrial development. *Tu., Th., Sat.*, 4.50. Mr. CHURCHILL.

26. American Political History. A general course in American History designed as a preparation for specialized work, or for students having a limited time to devote to the subject. Lectures, text-books, and reports upon assigned readings. *Tu., Th.*, at 2.30, with a third hour at the convenience of the instructor. Professor SWISHER.

30. American Constitutional History. A history of the origin and development of the Federal Constitution of 1789, with a study of its interpretation under the pressure of party issues, extending through the periods of division and reunion. Lectures, text-books, and collateral readings. *Mon. and Fri.*, at 4.50, in alternate years. Not given in 1911-12.

31. American Constitutional History since the Civil War. The constitutional results of the Civil War, as illustrated in the decisions of the Supreme Court during the past half century. *Tu. and Th.*, at 3.30, with an additional hour at the convenience of the instructor, in alternate years. Not given in 1911-12.

32. A History of Party Government. The development of the party system and the influence of party leaders and party issues in the United States; a research course based upon the study of political platforms and campaign literature. *Tu. and Th.*, at 4.50, with an additional hour at the convenience of the instructor. Professor SWISHER.

33. Current History. A discussion of political questions of the day, with special reference to their origin and historical significance. Lectures throughout the year. *Sat.*, at 11. Professor SWISHER.

*Third Section. Primarily for Graduates.*

44. Seminary Work. The results of individual research, conducted by graduate students upon assigned topics, will be discussed at the weekly meetings of the seminars of American and Modern European History.

Undergraduate students properly qualified by previous study, who desire to do intensive work with a view to gaining fuller information

upon special periods or facility in the use of historical materials, may, with the approval of the instructor, be admitted to the historical seminars.

## SECTION II—INTERNATIONAL LAW AND DIPLOMACY.

CHARLES HERBERT STOCKTON, LL.D.....In charge of Department  
CHARLES CLINTON SWISHER, LL.D.....Professor of History  
LESLIE CLEVELAND McNEMAR, A.B.....Instructor  
JOHN BALL OSBORNE, A.M.....Lecturer

### *For Undergraduates and Graduates.*

20. PRINCIPLES OF INTERNATIONAL LAW.—A detailed course in the nature, sources, and sanctions of International Law, based upon the study of cases and reports, supplemented by letters and assigned readings. Throughout year. *Mon., Wed., Fri.*, at 4.50 p. m. A series of lectures by President STOCKTON occupying about one-fourth of the class meetings, with text-book and case instruction by Mr. McNEMAR during the remainder of the class hours.

21. THE ELEMENTS OF DIPLOMACY.—A study of the genesis and organization of the Department of State; the diplomatic service; diplomatic usage; negotiation of treaties; methods and traditional principles of our foreign policy. First half-year. *Tu., Th.*, 8 a. m. A series of discussions by occasional lecturers, directed by President STOCKTON.

22. THE CONSULAR SERVICE.—The history and development of the Consular Service of the United States; its present organization; the rights, duties, and methods of procedure of consular officers; the consular conventions of the United States; comparative study of modern consular establishments. Two hours, first half-year. *Tu., Fri.*, at 8 a. m. Mr. OSBORNE.

29. HISTORY OF AMERICAN DIPLOMACY.—A general history of American foreign relations from the Treaty with France in 1778, with a special study of some of the more important questions of American foreign policy. A research course with readings from treaties and diplomatic correspondence. Throughout the year. *Mon., Fri.*, 2.30 p. m. Professor SWISHER.

### *Primarily for Graduates.*

44. CONFLICT OF LAWS OR PRIVATE INTERNATIONAL LAW.—A course dealing with private law in its international aspects. Among the topics treated are marriage and divorce, guardianship, wills, and the administration of estates, bankruptcy, and foreign judgments. Open only to students who have had instruction in the fundamental subjects of American Law. Four hours, second half-year. (Hours to be announced on Law Schedule.) — —



## MATHEMATICS.

HOWARD LINCOLN HODGKINS, Ph.D.....	Professor
ASAPH HALL, JR., Ph.D.....	Professor
H. GRANT HODGKINS, A.B.....	Instructor

*First Section. Primarily for Undergraduates.*

3. Solid Geometry; College Algebra; Plane Trigonometry. *Mon., Wed., Fri., at 9.* Professor HODGKINS.
4. Algebra; Plane Trigonometry. *Mon., Wed., Fri., at 5-40.* Mr. HODGKINS.
6. Solid Geometry; College Algebra; Plane Trigonometry. *Tu., Th., Sat., at 5-40.* Mr. HODGKINS.
9. Trigonometry; Analytic Geometry. *Mon., Wed., Fri., at 10.* Professor HODGKINS.
12. Trigonometry; Analytic Geometry. *Mon., Wed., Fri., at 5-40.* Professor HODGKINS.

*Second Section. For Undergraduates and Graduates.*

20. Differential and Integral Calculus; Elements of Differential Equations. *Tu., Th., Sat., at 4-50.* Professor HODGKINS.
21. Differential and Integral Calculus; Elements of Differential Equations. *Tu., Th., Sat., at 9.* Professor HODGKINS.

*Third Section. Primarily for Graduates.*

40. Differential Equations. Professor HODGKINS.
48. Celestial Mechanics. Theory of central forces; theory of parabolic and elliptic orbits. Lectures, with reading from the works of Gauss, Oppolzer, and Moulton. Professor HALL.

## METEOROLOGY.

WILLIS LUTHER MOORE, D.Sc., LL.D.....	Professor
WILLIAM JACKSON HUMPHREYS, Ph.D.....	Professor

*Third Section.*

40. Applied Meteorology. Investigations of the underlying laws governing meteorological phenomena and of the methods employed in practice for their interpretation and applications. Professor MOORE.
41. Meteorological Physics. This course presupposes collegiate training in general physics. Particular attention will be given to the interpretation of meteorological phenomena in the light of modern physics; and those wishing to make this their principal study will be assisted in the selection of a suitable problem for investigation and advised in the collection of data necessary to its solution. Professor HUMPHREYS.

## PHILOSOPHY, PSYCHOLOGY, AND EDUCATION.

WILLISTON SAMUEL HOUGH, Ph.M.....	Professor
GEORGE LANSING RAYMOND, L.H.D.....	Professor
WILLIAM CARL RUEDIGER, Ph.D.....	Professor
WILLARD STANTON SMALL, Ph.D.....	Lecturer
STEPHEN ELLIOTT KRAMER, A.M.....	Lecturer
.....	Laboratory Assistant

*First Section. Primarily for Undergraduates.*

1a. General Psychology. An introductory study of the principal facts and laws of the mental life. First half-year. *Mon., Wed., Fri.*, at 10.00. Professor HOUGH.

1b. General Psychology. Parallel with Course 1a. First half-year. *Mon., Wed., Fri.*, at 4.50. Professor HOUGH.

2a. Logic and Theory of Knowledge. Principles of deductive and inductive inference, followed by a study of the nature and structure of knowledge, its organization, and its relation to language. Second half-year. *Mon., Wed., Fri.*, at 10.00. Professor HOUGH.

2b. Logic and Theory of Knowledge. Parallel with Course 2a. Second half-year. *Mon., Wed., Fri.*, at 4.50. Professor HOUGH.

(Courses 1 and 2 are intended to satisfy the requirements in Psychology and Logic of Groups I, II, III, and V. They are introductory to the remaining courses in Philosophy and Education, and should be taken in the Sophomore year by students intending to pursue advanced courses or courses in Education. Courses 1b and 2b are given in alternate years. Given in 1911-12.)

3. General Psychology. Designed specially for teachers in service. *Tu., Th.*, at 3.50. Professor RUEDIGER.

(Normal School graduates and teachers of experience may take Course 3 instead of Courses 1 and 2 in satisfaction of the requirement in Psychology and Logic.)

*Second Section. For Undergraduates and Graduates.*

20. History of Philosophy. The chief epochs in the history of thought, with emphasis on their significance in the progress of civilization. Lectures, with assigned reading. First half-year. *Mon., Wed., Fri.*, at 11.00. Professor HOUGH.

21. Ethics. An introductory study of moral conduct. Second half-year. *Mon., Wed., Fri.*, at 11.00. Professor HOUGH.

(Courses 20 and 21 should be preceded by Courses 1 and 2, or 3, or an equivalent.)

22. Introduction to Philosophy. Lectures on the relation of philosophy to life and to the history of culture; and on the types of philo-



sophical theory, with special reference to modern systems. Assigned reading, and discussions. Open to those who have had General Psychology. *Th.*, at 4.50. Professor HOUGH.

23. Greek and Modern Ethics, with special reference to the problems of moral education. Critical reading of selected Dialogues of Plato and the Ethics of Aristotle (Peter's translation), with lectures on modern systems of ethics and on the principles of moral education. *Tu.*, at 4.50. Professor HOUGH.

24. History of Philosophy. The evolution of philosophic thought in relation to the progress of civilization and the interpretation of human life. Lectures, with collateral reading. *Tu.*, *Th.*, at 4.50. Not given in 1911-12. Professor HOUGH.

25. Ethics. Seminary course. A critical study of the historical systems of morals. Lectures, reports upon assigned reading, and discussions. *Mon.*, 4.30-6.00. Credit, two hours. Not given in 1911-12. Professor HOUGH.

#### *Third Section. Primarily for Graduates.*

40. The Principles of Psychology. A seminary course for the advanced study of fundamental problems. Designed for graduates taking a major or minor in Psychology. Open to undergraduates who obtain the permission of the instructor. Hours to be arranged. Credit, two hours. Professor HOUGH.

43. Elements of Metaphysics. Selected fundamental problems. Designed for graduates taking a major in Philosophy. One hour. Professor HOUGH.

46. Aesthetics. Seminary Course. Aesthetics considered philosophically, historically, and practically. Conferences, prescribed readings, and thesis. Professor RAYMOND.

#### EDUCATION.

Courses 1 and 2 in General Psychology and Logic must precede, or be taken parallel with, the first course in Education; but Normal School graduates and teachers of experience may satisfy this requirement by taking Course 3 in General Psychology. The work in Education should begin either with the Principles of Education and of Teaching (Courses 21a and 21b), or with the History of Education (Course 22). Candidates for the Teacher's Diploma are required to complete before graduation Courses 20 or 21 (a and b); 22; 23 and 24, or 25; 30 (a and b), and 31. But teachers of experience may substitute an elective in Education, counting 2 units, for Course 31.

21a. Principles of Education. The basis, aims, values, and essential content of education as revealed by biological, psychological, socio-

logical, and ethical principles. First half-year. *Sat.*, 10-12. Professor RUEDIGER.

21b. Educational Psychology or Principles of Teaching. The fundamental principles underlying the teaching process as revealed by psychology and logic. Second half-year. *Tu., Th.*, at 4.50. Professor RUEDIGER.

(20a and b. The Principles of Education and of Teaching; a course parallel with the preceding. Not given in 1911-12. *Mon., Wed., Fri.*, at 9.00. Professor RUEDIGER.)

22. History of Education. A general course in the historical development of educational theory and practice. *Tu., Th.*, at 4.50. Professor RUEDIGER.

23. Child Study. The psychology, physiology, and hygiene of childhood and adolescence, with special reference to the problems of teaching. Kirkpatrick's *Fundamentals of Child Study*, supplemented by lectures, assigned reading, and reports. *Sat.*, 10 to 11. Dr. SMALL.

24. School Sanitation and Hygiene. A survey of the relations of education and health, including: The function of the school in promoting health; physical examination of children; medical inspection; physical education; diseases and defects incident to school life; the organization of instruction as related to fatigue; defective children; schoolhouse construction and sanitation. Lectures, reference work, and reports. *Sat.*, 11 to 12. Dr. SMALL.

25. Secondary Education. A practical course for actual or prospective high-school teachers, considering the history and function of American and foreign secondary education, and the values, essential content, and method of presentation, of the high school branches. *Mon., Fri.*, at 3.50. Not given in 1911-12. Professor RUEDIGER.

26. Elementary Education. The following topics will be considered: (a) Comparison of the German, French, English, and American elementary education; (b) the relation of the elementary school to society and to the high school; (c) ways and means of securing realness in teaching the various elementary school branches; (d) the development of initiative and self-reliance in the elementary school pupil. *Wed., Fri.*, at 3.50. Professor RUEDIGER.

(Courses 25 and 26 will be given in alternate years.)

27. School Administration. The public school system: Its development; economic and political relations; organization of administration, financial and educational; problems of administration. Lectures, assigned reading, and reports. One hour. Hour to be arranged. Dr. SMALL.

28. Experimental Education. After a brief introduction to the experimental investigation of sensation, movement, and association, this course will be devoted to experiments in educational psychology.



Among the topics to be investigated will be: habit formation; memorizing; the transfer of practice; the effectiveness of various motives in study; the effectiveness of different methods of presentation; the application of the Binet tests. *Mon.*, at 3.30-5.30, or at an hour to be arranged. Professor RUEDIGER.

29. Teaching Pupils to Study. A practical course on the development of initiative in thought and study. *Wed.*, at 3.50. Not given in 1911-12. Professor RUEDIGER.

30a. Class Management. A consideration of the practical problems of the class-room, including economy in class management, attendance, discipline, physical conditions, the daily program, and the technique of class instruction. Class discussions, lectures, and assigned readings. *Wed.*, 4.50. First half-year. Mr. KRAMER.

30b. School Supervision. A course involving the study of the relations of teachers to supervising officers, the principles of helpful criticism, the testing of class work, the conducting of teachers' meetings, and the rating of teachers. Class discussions, lectures, and assigned readings. *Wed.*, 4.50. Second half-year. Mr. KRAMER.

31a. Observation. Both the application of general educational principles and the methods of teaching particular subjects are systematically observed and discussed. First half-year. Two hours. Hours to be arranged. Professor RUEDIGER.

31b. Practice. The student-teacher is led in particular to form the connection between theory and practice and to establish right teaching habits. Second half-year. Two hours. Hours to be arranged. Professor RUEDIGER.

(Courses 26, 30, and 31 are open only to students registered in Teachers College.)

32. Adolescence. A consideration of the psychology of adolescence, with special reference to the problems of secondary education. Lectures, readings, and special topics. One hour. Not given in 1911-12. Dr. SMALL.

#### *Third Section. Primarily for Graduates.*

40. Research in Educational Psychology. Methods of investigation, followed by a review of typical studies. Each student will be expected to investigate and report upon some special topic. Two hours. Hours to be arranged. Professor RUEDIGER.

#### PHYSICS.

HOWARD LINCOLN HODCKINS, Ph.D.....	Professor
PERLEY GILMAN NUTTING, Ph.D.....	Assistant Professor
HAYNER HASKELL GORDON, Ph.D.,.....	Instructor
FREDERICH WARREN GROVER, Ph.D.....	Lecturer

*First Section. Primarily for Undergraduates.*

1. General Physics. A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. This is a required course for Sophomores in Engineering, and may be elected by the general student who has had a college course in trigonometry. *Mon., Wed., Fri.*, at 4.50. Professor HODGKINS.

2. Laboratory Physics. A selected series of experiments, mainly quantitative. Two two-hour periods. *Tu., Th.*, at 10, or *Tu., Th.* at 7.30. Professor HODGKINS and Dr. GORDON.

3. Introductory General Physics. A lecture and recitation course, similar to Course 1, but less mathematical, and planned with reference to the needs of the general student. *Mon., Wed., Fri.*, at 1.30. Professor HODGKINS.

*Second Section. For Undergraduates and Graduates.*

21. Heat. A lecture and laboratory course, based on Preston's Theory of Heat and Poynting and Thomson's Heat. Three periods. Not given in 1911-12.

22. Light. A lecture and laboratory course, based on Preston's Theory of Light and Schuster's Theory of Optics. Three periods. Not given in 1911-12.

*Third Section. Primarily for Graduates.*

45. Spectroscopy. An experimental study of the flame, arc, spark, and vacuum tube spectra of the chemical elements; variations in spectra produced by varying excitation; spectra of mixed gases and alloys; identification of elements; photography of spectra. Assistant Professor NUTTING.

46. Electricity, Inductance and Capacity. Their measurement and significance in electrical engineering and wireless telegraphy. No regular text-book will be followed, but reference will be made to the various scientific periodicals. The most convenient formulæ for the calculation of the self and mutual inductance of coils and the electrical capacity of condensers will be considered, together with practical methods for their accurate measurements. Much attention will be given to the discussion of the various forms of condensers and inductive coils in use and of their design. If the time should be sufficient, the question of the measurement of the fundamental electrical standard will be discussed. The lectures will be given if at least three (3) persons register for the course. Two hours. Dr. GROVER.



## SECTION I—POLITICAL SCIENCE.

CHARLES NOBLE GREGORY, A.M., LL.D.....	Professor of Law
BLAINE FREE MOORE, A.M.....	Assistant Professor of Political Science
LESLIE CLEVELAND McNEMAR, A.B.....	Instructor
PAUL CHARLTON .....	Lecturer

## . For Undergraduates.

20. ELEMENTS OF POLITICAL SCIENCE.—An introductory course in political science, dealing with the origin, nature, and functions of the State; the fundamental political concepts such as the State, sovereignty, government, law, civil liberty; the forms of State; the forms of government; distribution of the powers of government. Recommended as a prerequisite for the succeeding courses. Text-book and assigned reading. Three hours, first half-year. *Mon., Wed., Fri.*, at 4.50 p. m. Assistant Professor MOORE.

21. AMERICAN GOVERNMENT.—A general introductory course to American Government. The establishment of the Federal Constitution; a descriptive study and general survey of the nation and local governments. Text and assigned readings. Three hours, first half-year. *Mon., Wed., Fri.*, at 5.40 p. m. Assistant Professor MOORE.

22. NATIONAL GOVERNMENT.—A study of the national administration; the rights and duties of executive officers; an analysis of the workings of the executive departments; a brief discussion of Congress and the Judiciary. Lectures, text, and readings. Three hours, second half-year. *Mon., Wed., Fri.*, 5.40 p. m. Assistant Professor MOORE.

23. MUNICIPAL GOVERNMENT IN THE UNITED STATES.—A study of the organization and administration of city government in the United States with a limited comparative study of European conditions. The growth of cities; their relation to the State; powers and liabilities of municipal corporations; municipal problems such as those relating to local transportation, police, light and water supply, municipal ownership of public utilities. Three hours, first half-year. *Mon., Wed., Fri.*, 1.30 p. m. Assistant Professor MOORE.

24. MUNICIPAL GOVERNMENT IN EUROPE.—The legal position of the European City; its powers and liabilities; governmental organization and methods of administration; municipal problems in Europe and their treatment; municipal ownership. Three hours, second half-year. Not given in 1911-12. Assistant Professor MOORE.

25. EUROPEAN GOVERNMENTS.—A study of the organization and actual workings of the governments of France, Germany, Italy, Switzerland: a discussion of the executive, legislative, and judiciary and internal political conditions of each country. Lectures and assigned readings.

Three hours, second half-year. *Mon., Wed., Fri.*, at 1.30 p. m. Assistant Professor MOORE.

26. AMERICAN POLITICAL THEORIES.—A study of the development of American political ideas. Political theories of the colonial, the revolutionary, and the formative period; the growth of democratic ideas; political theories of the slavery and Civil War controversies; modern political theories in the United States. Two hours, second half-year. Given alternate years; not given in 1911-12. Mr. McNEMAR.

27. POLITICAL PARTIES.—A study of the organization and methods of action of political parties in the United States. Growth of the party system; primary and convention system; permanent party organization; elements of cohesion in parties; reform movements and measures; theory of the party system. Prerequisites courses 20-21. Three hours, first semester. *Mon., Wed., Fri.*, at 9.00 a. m. Mr. McNEMAR.

28. COMPARATIVE CONSTITUTIONAL LAW.—A comparative study of the constitutions and governmental forms of the United States, Great Britain, France, and Germany as representative types of modern constitutional government; a comparison of the constitutional powers of the more important Federal governments. Two hours, first half-year. Not given in 1911-12. Assistant Professor MOORE.

29. INTRODUCTION TO THE STUDY OF LAW.—An elementary course of lectures, with collateral reading, intended to assist the student beginning the study of law, and dealing with (1) the nature, scope, classification, and history of the law; (2) how and where to find the law, and (3) courts and procedure. Woodruff's Introduction to the Study of Law. Hours announced on law schedule. — — —

*For Undergraduates and Graduates.*

40. ADMINISTRATIVE LAW AND OFFICERS.—Administrative action; exercise of official powers; discretion; orders; enforcement; evidence. Judicial control; action against officers, municipal corporations, and the State; extraordinary legal remedies. Public officers; nature of office; eligibility; appointment, removal; execution of authority; liability. Freund's Cases on Administrative Law. Three hours, second half-year. *Mon., Wed., Fri.*, at 9.00 a. m. Mr. McNEMAR.

41. PRIVATE RIGHTS AND IMMUNITIES UNDER THE CONSTITUTION.—An advanced course in Constitutional law—a study of cases showing the development of Federal protection of private rights and immunities; limitations on the powers of the States to deprive persons of life and liberty, to define and regulate the use of property, to impose taxes, to impair the obligation of contracts, etc. Two hours, second half-year. *Tu.*, 4.50 to 6.30 p. m. Assistant Professor MOORE.

42a. COLONIAL GOVERNMENT.—A historical review of the colonial system and policies of the world; reasons for colonial expansion; the



theory of the relationship between States and their colonies; the institutions and methods devised by the central government for colonial administration and control. Lectures and assigned readings. Two hours, first half-year. Given in alternate years; not given in 1911-12. Assistant Professor MOORE.

42b. COLONIAL ADMINISTRATION.—A study of the executive, legislative, and judicial organization and the administration of laws in existing colonies; an investigation of the industries, labor, and education in these colonies. The organization and administration of the insular possessions of the United States. Lectures and assigned readings. Two hours, second half-year. Given in alternate years. Not given in 1911-12. Mr. CHARLTON.

43. ROMAN LAW.—A comparison of some of the fundamental conceptions of the law of Rome and of the modern Civil Law with those of the Roman Law. Open only to students who have had instruction in American Law. Two hours, first half-year. Not given in 1911-12.

45. SPANISH-AMERICAN LAW.—Giving an outline of the legal systems prevailing in Central and South America, in Cuba, Porto Rico, and the Philippine Islands, with emphasis upon their private laws, both civil and commercial, and their system of procedure. Open only to students who have had instruction in Roman Law. Lectures, assigned reading, and reports. Two hours, second half-year. Not given in 1911-12.

*Primarily for Graduates.*

46. SEMINAR IN POLITICAL SCIENCE.—Students competent to undertake advanced work along special lines are admitted to this seminar for the presentation and discussion of essays on topics belonging to the field of political science proper. Hours and credit to be arranged. Assistant Professor MOORE.

**PREVENTIVE MEDICINE.**

GEORGE M. STERNBERG, M.D., LL.D. .... Professor

*Third Section. Primarily for Graduates.*

40. Food preservatives in relation to the Public Health. The hygienic results of milk sterilization. The hygienic results of filtration of municipal water supplies. The use of chemical agents for the sterilization of water supplies, municipal or domestic. The results of legislative and philanthropic efforts to arrest the progress of tuberculosis in the United States, and especially in the principal cities.

## ROMANCE LANGUAGES AND LITERATURES.

GEORGE NEELY HENNING, A.M.....Professor

## FRENCH.

*First Section. Primarily for Undergraduates.*

1. Grammar, composition, drill in pronunciation. Fraser and Squair's French Grammar. Translation and reading of nineteenth century fiction and history. (400-500 pages.) For beginners. *Mon., Wed., Fri.*, at 11.00. Professor HENNING.
2. Parallel with Course 1. *Tu., Th., Sat.*, at 5.40. Professor HENNING.
4. Translation, reading, grammar, composition. Fraser and Squair's French Grammar. Mérimée, *Colemba*; other texts to be announced. Open to students who have passed in French 1 or 2, or have fulfilled the admission requirements in Elementary French. *Tu., Th., Sat.*, at 4.50. Professor HENNING.
6. General survey of French literature, nineteenth to seventeenth centuries. Translation, collateral reading, and reports thereon, lectures on literature and the history of the language, composition. Open to students who have passed in Course 4, or have fulfilled the admission requirements in Advanced French. *Mon., Wed., Fri.*, at 3.30. Professor HENNING.

*Second Section. For Undergraduates and Graduates.*

- Courses in this group are open to students who have passed in Course 6, or who otherwise satisfy the instructor of their fitness to take them.
21. Seventeenth century literature; history, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Descartes, Pascal, La Rochefoucauld, La Bruyère, Boileau, Saint-Simon, Mme. de Sévigné, Bossuet, Corneille, Racine, Molière, Fénelon, Malherbe, La Fontaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Not given in 1911-12.
  25. Nineteenth century literature; history, philosophy, criticism, memoirs, travels, fiction, drama, lyric poetry. Thierry, Michelet, Miguet, Thiers, Taine, Sainte-Beuve, Brunetière, France, Lemaitre, Renan, Gautier, Mme. de Staël, Chateaubriand, Hugo, George Sand, Mérimée, Balzac, Flaubert, Daudet, Maupassant, Loti, Musset, Dumas fils, Augier, Maeterlinck, Rostand, Lamartine, Vigny, the Romantic poets, the Parnassians, the Symbolists, etc. Translations, collateral reading, and reports thereon, lectures on literature and history. Thesis. *Mon., Wed., Fri.*, 2.30. Professor HENNING.



*Third Section. Primarily for Graduates.*

47. The comedies of Molière. Professor HENNING.  
 50. The Romantic Movement in France, with some reference to the same movement in England and Germany. Professor HENNING.  
 Other courses may be arranged for competent graduates.

## SPANISH.

(One of the following courses will be offered in 1911-1912.)

*First Section. Primarily for Undergraduates.*

1. Grammar, composition. Hills and Ford's Spanish Grammar. Translations and reading of nineteenth century fiction and drama. Open to first-year students only by permission of the instructor. Students may not elect Spanish and Italian in the same year. *Mon., Wed., Fri., at 10.* Professor HENNING.

*Second Section. For Undergraduates and Graduates.*

20. Translation of modern prose and poetry, with much collateral reading. *Mon., Wed., Fri., at 10.* Professor HENNING.

## FEES.

## ARTS AND SCIENCES.

- |   |     |
|---|-----|
| 1. Matriculation fee (payable once).....  | \$5 |
| 2. Annual library fee.....  | 2   |
| 3. Tuition fee per annum for graduate courses leading to the degrees of M.A., M.S., C.E., E.E., M.E., Jur.D., and Ph.D....  | 150 |
| Where candidates for higher degrees exceed the minimum time limit they may be liable for an additional charge of \$40 per annum for each topic pursued by them.                                       |     |
| 4. Tuition fee per annum for each hour per week of undergraduate courses leading to the degrees of B.A. and B.S., and for graduate courses leading to the degree of M.Dip.....                        | 10  |
| 5. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, except for courses which do not begin with the terms..... | 2   |
| 6. Tuition fee for each year of the regular four-year courses in any of the Colleges.....   | 150 |
| 7. Laboratory courses:  |     |
| Material fees:  |     |
| Mineralogy .....  | 5   |
| Chemistry 2, 3, and 7; Electrical Engineering; Physics, each .....  | 10  |

Chemistry, 4 (Assaying).....	\$20
Chemistry, except 2, 3, 4, 7, and 28, each.....	25
Deposits to cover breakage of apparatus issued, the amounts paid in excess of breakage to be returned:	
Chemistry, 2, 3, 7, and 28, each.....	10
Chemistry, except 2, 3, 4, and 7, each.....	25
8. Fee for graduation.....	10
9. Tuition fee for the following special course, not taken by candidates for a degree.....	40
Chemistry, Course 4 (Assaying).	
10. In determining tuition fees, three hours of laboratory work in Chemistry, and two hours of laboratory work in other subjects count as one hour.	
11. Fee for certificate under the seal of the University.....	2

No change will be made in the fees fixed at the time of registration except in the case of a change in or withdrawal from a course of study, and then only upon notice in due form and from the end of the current month, when such change or withdrawal shall be approved. Applications for permission to change a course of studies or for the granting of a withdrawal should be made on the prescribed form to be obtained from the Dean, and will be received only at the end of a month.

#### PAYMENT OF FEES.

Matriculation, library, and other special fees, and laboratory deposits are due in full in advance. Tuition and laboratory material fees are due in eight monthly instalments in advance. Students unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Treasurer of the University.

#### BOARD AND ROOMS.

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

For catalogues, application blanks, and further information, address

THE SECRETARY,

*The George Washington University,  
Washington, D. C.*



## Professional Departments.

### DEPARTMENT OF LAW.

#### FACULTY.

CHARLES HERBERT STOCKTON, LL.D.	PRESIDENT OF THE UNIVERSITY
CHARLES NOBLE GREGORY, A.M., LL.M., LL.D.	Professor of Law, Dean
MELVILLE CHURCH, LL.M.	Professor of the Law of Patents
WALTER COLLINS CLEPHANE, LL.M.	Professor of Law
EDWIN CHARLES BRANDENBURG, LL.M.	Professor of Law
ARTHUR PETER, LL.M.	Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.	Professor of Law
WENDELL PHILLIPS STAFFORD, LL.D.	Professor of Law
JOSIAH ALEXANDER VAN ORSDEL, LL.D.	Professor of Law
JOHN WILMER LATIMER, LL.B.	Assistant Professor of Law
EVERETT FRASER, A.B., LL.B.	Assistant Professor of Law
HENRY CRAIG JONES, LL.B.	Assistant Professor of Law
ALFRED BUHRMAN.	Clerk of the Moot Court
JOSEPH RYLAND CURL, B.S.	Secretary of the Department of Law

#### COURT OF APPEALS.

WILLIAM F. MATTINGLY, LL.D.	Chief Justice
JOHN BELL LARNER, LL.D.	Associate Justice
STANTON JUDKINS PEELE, LL.D.	Associate Justice

#### GENERAL STATEMENT.

This Department, established in 1865, is the oldest school of law in the city of Washington. Its course of instruction for the degree of Bachelor of Laws, originally requiring but two years, was gradually expanded, until, in 1898, in accordance with the recommendation of the American Bar Association, it was increased to three years. The Faculty has also shown a gradual increase in numbers commensurate with the expansion of the course and the growing number of students in attendance. Beginning with 1903, the Board of Trustees adopted the policy of placing most of the important topics of substantive law under the charge of trained professional teachers giving their whole time to the work of legal instruction. Those branches of the law connected with practice

will continue to be under the charge of professors who are actively engaged in the administration of the law either at the bar or on the bench.

In 1877 a year of graduate work, leading to the degree of Master of Laws, was added to the course of instruction offered. A special course in Patent Law was added in 1895.

In June, 1898, an ordinance was adopted by the Board of Trustees formally establishing as a separate department of the University the Department of Jurisprudence and Diplomacy. This Department was opened on November 15, 1898.

In 1904, by the authority of the Board of Trustees, a new adjustment of graduate work in the University was made, resulting in the establishment of the Departments of Law and of Politics and Diplomacy (now called the College of the Political Sciences), the former embracing the undergraduate and graduate courses in municipal law, and the latter graduate and undergraduate courses in the political sciences, special attention being given to diplomacy.

#### THE ADVANTAGES OF WASHINGTON FOR THE STUDY OF LAW.

To students of law, the peculiar advantages of Washington are manifest. The Supreme Court of the United States is in session during practically the entire school year. Students have the rare opportunity of hearing the arguments presented by leading American lawyers and the decisions of this high tribunal, which are delivered orally each Monday, upon the important legal questions which come before that court for final determination. Congress is in session during the winter, and here students see the practical workings of the largest and most important law-making body. The Department of Justice, the legal branch of the Federal Government, is also located in Washington. Besides the above there are also the United States Court of Claims, the United States Court of Customs Appeals, the United States Commerce Court, and the various local courts of the District of Columbia. The last-named courts exercise the unusual dual function of State and Federal courts. By means of attendance upon these courts students may familiarize themselves with all branches of legal procedure.

#### SEPARATE COURSES FOR ALL-DAY AND AFTERNOON STUDENTS.

Since 1903 the work of the Department of Law has gradually been transferred from the late afternoon hours to the forenoon, and at the present time the lectures offered to all-day students are largely confined to the earlier part of the day.



To meet the needs of those students whose employment in the Government service, or elsewhere, prevents their attendance before 4.30 in the afternoon, an afternoon course is given.

#### HOURS FOR LECTURES.

In the all-day course the larger part of the instruction is given between the hours of 9.00 a. m. and 1.00 p. m.

In the afternoon course the instruction is given between the hours of 4.50 and 6.30 p. m.

#### LOCATION.

The Department of Law is located on the fifth and sixth floors of the New Masonic Temple, corner of New York avenue, Thirteenth and H streets N. W., and is easily accessible from all parts of the city. The quarters are well equipped with commodious lecture rooms, moot court rooms, offices, the law library, and a students' room.

#### ACADEMIC YEAR.

The academic year extends through more than eight months, beginning on the last Wednesday in September and ending on the Wednesday following the Wednesday nearest the first day of June, and is divided into two half-years, the second half-year beginning on the first day of February. The session of 1911-12 begins on Wednesday, September 27, and closes Wednesday, June 5. Since a number of the courses given during the first half-year are completed before the beginning of the second half-year, it is possible for a student to enter on the 1st of February of any year and be graduated three years from that date, receiving his degree at the Winter Convocation, held on February 22, of each year.

Lectures begin promptly on the first day of the term, and students applying for admission at a later day will be admitted only upon showing good cause for the delay.

#### ADMISSION.

##### I. FOR THE DEGREE OF BACHELOR OF LAWS.

Applicants for admission as candidates for the degree of Bachelor of Laws must be at least eighteen years of age and must have had educational training sufficient to satisfy the entrance requirements of the Department of Arts and Sciences of the University. In order to satisfy these requirements, which are set out at length in the General Catalogue of the University, students must present credits aggregating 15 units, which are broadly equivalent to a four years' high school course. Ap-

plicants for admission on certificate should secure formal certificates setting forth the credits claimed, and present these certificates attached to their application forms. All applications for admission should be addressed to the Secretary of the Department of Law, who will, upon request, furnish proper blanks and detailed information as to entrance examinations.

#### 2. FOR THE DEGREE OF MASTER OF LAWS.

Candidates for the degree of Master of Laws must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution substantially complying with the requirements of the Association of American Law Schools, of which this school is a member.

#### 3. FOR THE COURSE IN PATENT LAW.

Only those students who are graduates of an approved law school or members of the bar in good standing will be admitted as students in the course in Patent Law.

#### 4. SPECIAL STUDENTS.

Persons who for any reason do not qualify as candidates for a degree may, on the recommendation of the Faculty and with the assent of the professors whose courses they elect to take, be admitted as special students.

### ADVANCED STANDING.

Students may be admitted to advanced standing in the second or third year classes upon satisfying the requirements for the work of the preceding year or years. These requirements may be met by presenting certificates from other law schools of accredited standing showing that the student has successfully completed equivalent courses, or by passing the regular examinations set for that purpose at the beginning of the term, after the student has shown that he has pursued a course of study in a law school in the subjects upon which he is examined, covering at least as many hours as are required for such subjects in this University. No credit is given for study pursued in a law office.

All examinations that may be required of applicants for advanced standing are held during the first week of each session.

### METHOD OF INSTRUCTION.

Instruction in the class-room is based upon the study and discussion of cases. In some of the courses students are required to read parallel assignments in text-books.

In conducting the discussion of cases in the class-room every effort is made to lead the student to a clear understanding of the fundamental



legal principles that may be involved, and to afford him scientific training in accurate methods of study and of reasoning along legal lines.

Subjects involving the adjective law are in charge of professors who are engaged in active practice. The general principles of these subjects, taught in the same manner as indicated above, are developed by practice before the Moot Courts.

#### UNDERGRADUATE PROFESSIONAL COURSES.

Undergraduate students in Arts and Sciences upon the completion of forty-five units of credit may take the first year's work of the course for Bachelor of Laws, crediting them fifteen units, on the completion of which they may receive the academic degree.

#### COURSES OF INSTRUCTION.

##### A. LEADING TO THE DEGREE OF BACHELOR OF LAWS.

The course of instruction leading to the degree of Bachelor of Laws extends through a period of at least three years. A minimum of thirty-six hours' work is required of all candidates for this degree.

Students devoting their whole time to the study of law may, with the permission of the Dean, select additional subjects from the second and third years, provided the aggregate of the hours taken does not exceed fifteen a week. Such excess credits may be applied toward the degree of Master of Laws.

Students not devoting their whole time to the study of law are urged to devote more than three years to the completion of the course. In case of unsatisfactory work students are required so to extend the period of study.

#### FIRST YEAR SUBJECTS.

##### *First Semester.*

Contracts (A). Assistant Professor ———. Three hours a week. Williston's Cases on Contracts.

Criminal Law. Professor EARNEST. Two hours a week. Clark's Criminal Law and Mikell's Cases on Criminal Law.

Domestic Relations. Assistant Professor ———. Two hours a week. (Case-book to be announced.)

Property I (A). Assistant Professor FRASER. Three hours a week. Gray's Cases on Property, Volume I.

Torts (A). Two hours a week. Ames & Smith's Cases on Torts.

*Second Semester.*

Agency. Assistant Professor ———. Three hours a week. Wambaugh's Cases on Agency.

Contracts (B). Three hours a week. Williston's Cases on Contracts.  
Criminal Procedure. Professor EARNEST. One hour a week. Clark's Criminal Procedure and selected cases.

Property I (B). Assistant Professor FRASER. Three hours a week.  
Gray's Cases on Property, Volumes II and III.

Torts (B). Two hours a week. Ames & Smith's Cases on Torts.

## SECOND YEAR SUBJECTS.

*First Semester.*

Common Law Pleading and Practice. Professor CLEPHANE. Two hours a week. Tyler's Stephen on Pleading.

Corporations (A). Two hours a week. (Case-book to be announced.)

Equity I. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Evidence (A). Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Property II. Assistant Professor FRASER. Four hours a week. Gray's Cases on Property, Volumes II and III.

*Second Semester.*

Corporations (B). Two hours a week. (Case-book to be announced.)

Equity II. Professor STAFFORD. Two hours a week. Ames' Cases on Equity Jurisdiction.

Equity Pleading and Practice. Professor CLEPHANE. One hour a week. Thompson's Cases on Equity Pleading and Practice.

Evidence (B). Professor PETER. Two hours a week. McKelvey on Evidence and Thayer's Cases on Evidence.

Property III. Assistant Professor FRASER. Three hours a week.  
Gray's Cases on Property, Volume V.

Quasi-contracts. Two hours a week. Scott's Cases on Quasi-contracts.

Sales. Three hours a week. Williston's Cases on Sales. (Not given in 1911-12 and in alternate years thereafter.)

## THIRD YEAR SUBJECTS.

*First Semester.*

Bankruptcy. Professor BRANDENBURG. One hour a week.

Bills and Notes. Three hours a week. Huffcut's Negotiable Instruments: Statutes, Cases, and Authorities.



Brief Making. Assistant Professor LATIMER. One hour a week.

Conflict of Laws (A). Two hours a week. Lorenzen's Cases on Conflict of Laws.

Damages. Assistant Professor ———. Two hours a week. (Case-book to be announced.)

Insurance. Assistant Professor ———. Two hours a week. Wambaugh's Cases on Insurance.

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week.

Patent Law. Professor CHURCH. Two hours a week.

#### *Second Semester.*

Conflict of Laws (B). Two hours a week. Lorenzen's Cases on Conflict of Laws.

Federal Procedure. Professor BRANDENBURG. One hour a week.

Legal Tactics and Ethics. Professor CLEPHANE. One hour a week.

Moot Court. Professors CLEPHANE, EARNEST, and PETER. Two hours a week.

Organization and Management of Corporations. Professor CLEPHANE. One hour a week. Clephane on the Organization and Management of Corporations.

Patent Law. Professor CHURCH. Two hours a week.

Preparation of Legal Instruments. Assistant Professor LATIMER. One hour a week.

Property III. Assistant Professor FRASER. Three hours a week. Gray's Cases on Property, Volume V.

Suretyship. Two hours a week. Ames' Cases on Suretyship.

Partnership. Two hours a week. Gilmore's Cases on Partnership. (Not given in 1911-12 and in alternate years thereafter.)

Trusts. Assistant Professor ———. Three hours a week. Ames' Cases on Trusts.

Public Service Companies. Assistant Professor ———. Three hours a week. (Case-book to be announced.) (Not given in 1911-12 and in alternate years thereafter.)

Water Rights and Irrigation. Professor VAN ORSDEL. One hour a week. Long on Irrigation and assigned cases.

Mining Law. Professor VAN ORSDEL. One hour a week. (Not given in 1911-12 and in alternate years thereafter.)

Wills and Administration. Professor PETER. One hour a week.

Third Year students may elect also the following subjects given in the College of the Political Sciences:

Administrative Law. Mr. McNEMAR. Two hours a week, second semester. Freund's Cases on Administrative Law.

Private Rights and Immunities under the Constitution. Assistant Professor MOORE. Two hours a week, second semester. Boyd's Cases on Constitutional Law and assigned reading.

#### B. LEADING TO THE DEGREE OF MASTER OF LAWS.

Students admitted as candidates for the degree of Master of Laws are required to elect subjects, not previously taken, covering a minimum of ten hours a week. These may be freely elected from the subjects offered by the Faculty of Law and from the following subjects given in the College of the Political Sciences:

International Law.

Comparative Constitutional Law.

Administrative Law.

Private Rights and Immunities under the Constitution.

Taxation.

Any excess credits obtained in this Law School in the course leading to the degree of Bachelor of Laws may be applied toward the Master's degree. The degree of Master of Laws will not be conferred, however, until one year after the receipt of the Bachelor's degree.

*Advanced Practice.*—Candidates for the Master's degree may also elect advanced practice work in the Moot Court, receiving therefor a credit of two hours for the year.

#### C. IN PATENT LAW.

A special course in Patent Law and Patent Law Practice is given by Professor Church. The purpose of this course is to prepare those taking it for practice in all matters involving the law of patents. The course extends throughout one year, with two lectures or sessions of the Moot Court each week. (For the admission requirements for this course, see Admission Requirements, *ante*.)

This course may be elected and counted by students toward the degree of Bachelor of Laws, and such students will be required to take only the first semester of the regular moot court work. A certificate, under the seal of the University, is granted to all students who complete this course.

#### COURSES IN PRACTICE.

##### A. MOOT COURT WORK.

###### 1. *For the degree of Bachelor of Laws:*

Particular stress is laid upon moot court work. Aside from the practice court connected with the course in Patent Law, there are four courts in which undergraduate students pursue their work. Three of



these are *nisi prius* courts and are presided over by members of the Washington Bar in active practice. The fourth is a Court of Appeals to review the cases tried in the courts of first instance. This court is composed of the Chief Justice of the United States Court of Claims and of members of the Washington Bar.

Every third-year student before receiving the Bachelor's degree is required to prepare the pleadings in and prosecute to judgment the required number of cases in the *nisi prius* courts, with the privilege of appeal to the appellate tribunal. At least two hours in each week during the year must be spent by each third year student in active participation in moot court work in the court room to which he is assigned. Students electing Patent Law will be required, in view of the special moot court work in that course, to take only the first half-year of the regular moot court work.

Statements of facts are furnished, such as would be related to a lawyer in active practice by his client. Each student must determine whether or not upon such facts the particular case in hand is one of common law or equitable cognizance. He must then frame his pleadings, serve his writs, and answer his adversary's pleadings until issue is joined in legal manner, after which the case is brought on for hearing in strict accordance with the rules of actual practice. Juries are empaneled in accordance with settled legal procedure, witnesses are examined and cross-examined, and the case conducted through all the various stages of the trial or hearing down to and including the judgment or decree, after which, should the case be appealed, it must be carried through the appellate court, involving the preparation of the record on appeal, briefs of counsel, etc.

### 2. *For the degree of Master of Laws:*

The same facilities for moot court work as are described above are afforded in the course leading to the degree of Master of Laws. In this course, however, the nature of the cases assigned is somewhat different, involving, in addition to the ordinary cases at common law or in equity, cases of a special character, such as habeas corpus, certiorari, quo warranto, injunction, mandamus, extradition, replevin, attachment, etc. All candidates for this degree taking moot court work are required to carry through the appellate court each case assigned to them.

### 3. *Officers and Equipment:*

The clerk of the Moot Court is one of the assistant clerks of the Supreme Court of the District of Columbia, but his assistants in each court room are chosen from the student body, from whose ranks are also drawn the criers, jurors, and other officials, thus giving to the students the benefit of practice in administrative judicial machinery. The Moot Court is to all intents and purposes an actual court. The

rooms in which the sessions are held are fitted up with judges' benches, clerks' desks, jury boxes, and counsel tables, and from the time the crier announces that the court is in session until he announces its adjournment the procedure is identical with that of a regular judicial tribunal.

It is believed that any student who gives the proper attention to this feature of the law curriculum will be enabled to go out from this institution and creditably try cases in court, although he may never have been in an actual court room.

A careful record is kept of the work of each student, both as to his pleadings and his conduct of the case in court, and the ratings thus given determine, in connection with his ratings upon other subjects, whether or not he is entitled to a degree.

#### B. BRIEF MAKING.

In view of the rapidly increasing bulk of our case law, it becomes absolutely indispensable that students should be taught to find authorities in point, to collate them, and to present them to the court in a clear and concise form. In order to afford this training a course in Brief Making is given. This course will be conducted in part in the Library of the Department of Law, so that the use of the digests and reports may be illustrated.

#### C. PREPARATION OF LEGAL INSTRUMENTS.

Students are instructed in this course in the actual preparation of deeds, mortgages, wills, assignments, contracts, partnership agreements, and other legal instruments which a lawyer is called upon to prepare. Statements of facts are furnished to the class by the professor in charge, and each student is required to prepare the various forms of instruments. These are corrected by the professor and are discussed and criticised in class. Careful consideration is given to special forms of execution and acknowledgment when one of the parties to the instrument is a corporation, a partnership, a married woman, and the like.

#### D. LEGAL TACTICS AND ETHICS.

Every young lawyer entering upon his professional career is desirous of availing himself of the experience of an older practitioner and of learning many things which are not taught and cannot be taught from books. It is to meet the needs of this class of men that this course is given. It is in charge of a member of the Washington Bar whose practice has been an active one, extending over a period of many years.

A short introductory talk is given upon the relations between attorney and client, including the important subject of fees, after which the student is given the benefit of practical hints upon the manner of starting



in practice and opening and furnishing an office, with suggestions as to office systems.

The student is told how to listen intelligently to his client's grievances; how to draw up the pleadings arising out of these grievances; how to prepare for trial the case thus made, including the work of preparing the evidence; how to try the case and examine and cross-examine witnesses; the manner of making up the record, and conducting the argument on appeal, including the use of authorities in court. The Canons of Professional Ethics adopted by the American Bar Association are studied in this course. Practical instruction in Extraordinary Legal Remedies constitutes a part of this course.

### EXAMINATIONS AND GRADES.

#### *Regular Examinations:*

Written examinations are held at the close of each semester. These examinations are final as to the work of that semester. All students, unless specially excused by the Dean, are required to take the regular examinations in the subjects pursued.

No student, except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly registered and have been in regular attendance upon the lectures and have done all the work required in the course of instruction upon that subject.

#### *Grades:*

At all examinations the grading of students will be indicated by the letters A, B, C, D, E, and F, representing, respectively, *excellent*, *good*, *satisfactory*, *fair*, *conditioned*, and *failed*.

#### *Conditions:*

A student receiving the grade of E (*conditioned*), in the regular examination in any course, will be given an opportunity to remove the condition by passing a subsequent examination with the grade of C or better.

The regular examinations for the removal of conditions will be held during the first week of each session. Applications for permission to take any of these examinations must be made to the Secretary of the Department of Law, in writing, not later than three days before the date for which the examination is scheduled. Candidates for the Bachelor's degree may, by action of the Faculty, be granted special examinations in not more than two subjects carried as conditions during the first semester of their last year, at the end of that semester, and in one subject carried as a condition during the second semester, at the end of that year.

A student receiving the grade of F (*failed*), in any examination, or the grade of D or E in any examination to pass off a condition in any course, will be required to take the course over again before being permitted to take another examination in such course.

*Class Standing:*

Students having conditions in more than two subjects will not be advanced from one class to another, nor will candidates for a degree be permitted to carry more than one condition into the second semester of the year in which they expect to be graduated. Students may have, however (subject to the provisions above enumerated), an opportunity to remove conditions, imposed during any session, by taking the regular examination for the removal of conditions at the beginning of the following session, for which no fee is charged.

Students having conditions in more than three subjects will not be allowed to register except upon special permission from the Dean.

*Special Examinations:*

No special examinations, other than those above provided for, will be granted to any students except those of the graduating class who, for good cause, shall have been excused by the Dean from taking any regular examination during the third year.

*Attendance:*

Regular attendance is required in all courses; and the examination grade of any student in any course may be withheld and the passing of another examination or the repetition of the course may be required on the sole ground of unsatisfactory attendance.

*Election of Courses:*

No student shall be allowed to register in courses aggregating more than fifteen hours during any one semester without first obtaining the permission of the Faculty.

Every student who is a candidate for graduation with the degree of Bachelor of Laws in his third year shall take and pass in each semester of his third year courses aggregating ten hours.

Election of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.

## DEGREES.

### I. BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who have studied law for a period of at least three years and passed satisfactory examinations upon subjects aggregating thirty-six hours, and



whose attendance and conduct have been satisfactory to the Faculty. The degree will not be conferred upon students deficient in Bills and Notes, Common Law Pleading and Practice, Contracts, Corporations, Equity I and II, Equity Pleading and Practice, Evidence, Moot Court, Property I, II and III, and Torts.

The degree of Bachelor of Laws *with distinction* will be awarded to students whose average percentage in all subjects is equivalent to the grade of A.

## 2. MASTER OF LAWS.

The degree of Master of Laws will be conferred upon students who have completed the work prescribed for this degree with the grade of C or better, and whose attendance and conduct have been satisfactory to the Faculty.

## LAW LIBRARY AND READING-ROOM.

A well-equipped working library, comprising about 5,500 volumes, is open to the students from 9.00 a. m. to 10.00 p. m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The Library contains the standard text-books, the West Reporter System of Federal and State Decisions, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

In addition to these facilities, the students have free access to the Congressional Library and other public libraries.

## PRIZES.

*The Ordranax Prize Scholarship.*—A prize scholarship, known as "The Ordranax Prize Scholarship," is awarded to that member of the Second Year Class taking the regular course, whether forenoon or afternoon, who shall during his first and second years attain the highest average grade. In determining the average grade of contestants the grade received in each subject shall be multiplied by the number of hours given to such subject and the sum of the results divided by the total number of hours. The recipient of this prize scholarship shall be entitled to receive credit for tuition fees to the extent of ten hours' work in his third year. Library and diploma fees will remain payable. The award of this scholarship is purely personal and will not be commuted to a cash payment, nor will it be transferable. The recipient of the scholarship must make use of the scholarship during the session next succeeding its award; otherwise, the same shall be awarded, upon like conditions, to the person having the next highest grade.

This scholarship, for the session 1910-11, was awarded to Scott Henry Lilly.

*Edward Thompson Company Prize.*—A prize offered by the Edward Thompson Company of a set of the Encyclopædia of Law, first or second edition, or a set of the Encyclopædia of Pleading and Practice, is awarded each year to the senior law student who shall write the best essay on some legal subject to be assigned by the Faculty. This prize will not be awarded, however, if the essays submitted do not possess sufficient merit.

Not awarded in 1910.

*Ellsworth Prize.*—A prize of \$25 in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for the best work done by a regular student in the Patent Law Course.

Awarded in 1910 to John Woodward Milburn.

### PUBLIC SPEAKING.

Excellent facilities for training in the art of public speaking are afforded by the two debating societies that have been organized in the Department of Law. These societies, known as the Columbian and Needham Debating Societies, meet weekly for debate. Membership in these societies is entirely optional, but their work is encouraged in every legitimate way by the Faculty, and students are urgently advised to take part in their exercises.

### ADMISSION TO THE BAR OF THE DISTRICT OF COLUMBIA.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Department of Law of the University is regarded as discharging this requirement.

### FEES.

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	3
3. Tuition fee per annum (except for Patent Law) for each hour taken per week.....	10
4. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, excepting for courses which do not begin with the terms.....	2
5. Fee for graduation.....	10
6. Tuition fee for course in Patent Law.....	40
7. Fee for a certificate under the seal of the University.....	2



No change will be made in the fees fixed at the time of registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current month when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Secretary of the Department of Law.

The library fee will not be charged for the first half-year during which a course is completed in the case of students who enter at the beginning of the second half-year and pay the library fee for that year.

#### PAYMENT OF FEES.

Matriculation, library, other special fees and laboratory deposits are due in full in advance. Tuition and laboratory material fees are due in eight monthly instalments in advance. Students unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Treasurer of the University.

#### BOARD AND ROOMS.

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

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For catalogues, application blanks, and further information, address

THE SECRETARY OF THE DEPARTMENT OF LAW,

*The George Washington University,  
Washington, D. C.*

## DEPARTMENT OF MEDICINE.

### FACULTY.

The names are arranged in the several groups in the order of assignment.

#### PRESIDENT OF THE UNIVERSITY.

CHARLES HERBERT STOCKTON, LL.D.

*Dean of the Department of Medicine.*

WILLIAM CLINE BORDEN, M.D.,

*Professor of Surgery.*

Lieutenant-Colonel, Medical Corps, United States Army, Retired; *Surgeon-in-Chief to The George Washington University Hospital and Dispensary.*

1801 California St., N. W.

#### PROFESSORS, EMERITUS.

J. FORD THOMPSON, M.D.,

*Professor of Surgery, Emeritus.*

HENRY CRÉCY YARROW, M.D.,

*Professor of Dermatology, Emeritus.*

*Dermatologist to The George Washington University Hospital.*

926 17th St., N. W.

#### PROFESSORS.

A. F. A. KING, A.M., M.D., LL.D.,

*Professor of Obstetrics and Dean Emeritus of the Faculty.*

Consulting Physician, Children's Hospital; *Obstetrician-in-Chief to The George Washington University Hospital and Dispensary.*

1315 Massachusetts Ave., N. W.

GEORGE NICHOLAS ACKER, A.M., M.D.,

*Professor of Pediatrics and Clinical Professor of Medicine.*

Physician to the Children's Hospital; Consulting Physician to the Episcopal Eye, Ear and Throat Hospital, to the Lutheran Infirmary, to the Casualty Hospital, and to the Eastern Dispensary; *Pediatrician-in-Chief to the George Washington University Hospital and Dispensary.*

913 16th St., N. W.



D. KERFOOT SHUTE, A.M., M.D.,

*Professor of Neuro-Anatomy and Clinical Professor of Ophthalmology*

Consulting Ophthalmologist, Government Hospital for the Insane; Ophthalmologist to Providence Hospital, Central Dispensary and Emergency Hospital, Columbia Hospital, and to the Washington Hospital for Foundlings; *Ophthalmologist to The George Washington University Hospital.*

1719 De Sales St.

STERLING RUFFIN, M.D.,

*Professor of Medicine.*

Visiting Physician to the Columbia Hospital for Women; Consulting Physician to the Government Hospital for the Insane; *Physician-in-Chief to The George Washington University Hospital and Dispensary.*

1335 Connecticut Ave.

WILLIAM K. BUTLER, A.M., M.D.,

*Professor of Ophthalmology.*

Ophthalmologist to the Garfield Memorial Hospital; Surgeon-in-Charge, Lutheran Eye, Ear and Throat Infirmary; *Ophthalmologist to The George Washington University Hospital.*

1207 M St., N. W.

CHARLES E. MUNROE, S.B., Ph.D.,

*Professor of Chemistry.*

President American Chemical Society, 1898; President Washington Chemical Society, 1895; Vice-President of the American Association for the Advancement of Science, 1888; Fellow of the Chemical Society of London and of the Chemische Gesellschaft, Berlin; etc., etc.

2115 S St., N. W.

CHARLES WILLIAMSON RICHARDSON, M.D.,

*Professor of Laryngology, Rhinology, and Otology.*

Laryngologist to Providence Hospital, to the Episcopal Eye, Ear and Throat Hospital, and to the Washington Hospital for Foundlings; *Laryngologist-in-Chief to The George Washington University Hospital.*

1317 Connecticut Ave.

J. WESLEY BOVÉE, M.D.

*Professor of Gynecology.*

Gynecologist to the Columbia Hospital for Women; Gynecological Surgeon, St Elizabeth's Hospital for the Insane; *Gynecologist-in-Chief to The George Washington University Hospital and Dispensary.*

The Rochambeau

A. R. SHANDS, M.D.,

*Professor of Orthopedic Surgery.*

Orthopedic Surgeon to the Central Dispensary and Emergency Hospital; *Orthopedic Surgeon to The George Washington University Hospital and Dispensary.*

901 16th St., N. W.

FRANCIS R. HAGNER, M.D.,

*Professor of Genito-Urinary Surgery and Venereal Diseases.*

Genito-Urinary Surgeon to the Garfield Memorial Hospital; *Chief of the Genito-Urinary Clinic, The George Washington University Hospital and Dispensary.*

The Farragut

WILLIAM C. WOODWARD, LL.M., M.D.,

*Professor of Medical Jurisprudence.*

Health Officer, District of Columbia.

1766 Lanier Place, N. W.

WILLIAM A. WHITE, M.D.,

*Professor of Psychiatry and Clinical Professor of Neurology.*

Superintendent of the Government Hospital for the Insane, District of Columbia; Lecturer on Insanity, U. S. Army Medical School and U. S. Navy Medical School.

Government Hospital for the Insane.

I. W. BLACKBURN, M.D.,

*Professor of Morbid Anatomy.*

Pathologist to the Government Hospital for the Insane, District of Columbia.

Government Hospital for the Insane.

SHEPHERD IVORY FRANZ, A.B., PH.D.,

*Professor of Physiology.*

Psychologist to the Government Hospital for the Insane; Research Assistant, Carnegie Institute, Washington, D. C.

Government Hospital for the Insane.

D. W. PRENTISS, M.D.,

*Professor of Hygiene.*

1213 M St., N. W.

HURON W. LAWSON, M.S., M.D.,

*Professor of Histology and Embryology.*

Visiting Obstetrician to Freedmen's Hospital.

1117 Vermont Ave., N. W.

FREDERICK FULLER RUSSELL, M.D.,

*Professor of Pathology and Bacteriology.*

Major, Medical Corps, U. S. Army; Curator, Army Medical Museum; Instructor in Pathology and Bacteriology, U. S. Army Medical School; *Pathologist to The George Washington University Hospital and Dispensary and to the Columbia Hospital for Women.*

1928 Biltmore St., N. W.



B. M. RANDOLPH, M.D.,

*Professor of Materia Medica and Therapeutics.**Associate Physician to The George Washington University Hospital, Attending Physician to The George Washington University Dispensary.*

The Toronto.

CHARLES S. BUTLER, M.D.,

*Professor of Tropical Diseases.*

Surgeon, U. S. Navy; Instructor in Naval and Tropical Medicine, U. S. Naval Medical School.

1333 Harvard St., N. W.

RANDOLPH BRYAN CARMICHAEL, M.D.,

*Professor of Dermatology.**Dermatologist to the Garfield Memorial Hospital, the Providence Hospital, the Washington Hospital for Foundlings, the Central Dispensary and Emergency Hospital; Dermatologist to The George Washington University Hospital and Dispensary.*

818 17th St., N. W.

LOUIS A. LA GARDE, M.D.,

*Professor of Military Surgery.*

Colonel, Medical Corps, U. S. Army; President of the U. S. Army Medical School.

2624 Woodley Place, N. W.

WM. CABELL MOORE, A.B., M.D.,

*Professor of Anatomy.**Attending Physician to The George Washington University Dispensary; Assistant Physician, Dispensary Service, Central Dispensary and Emergency Hospital.*

The Wyoming.

## ASSOCIATE PROFESSORS.

JAMES DUDLEY MORGAN, A.B., M.D.,

*Associate Professor of Medicine and Clinical Professor of Medicine.**Physician-in-Chief to the Emergency Hospital and Central Dispensary; Visiting Physician to the Garfield Memorial Hospital; Consulting Physician to the Government Hospital for the Insane.*

919 15th St., N. W.

NOBLE P. BARNES, M.D.,

*Associate Professor of Materia Medica and Therapeutics and Clinical Associate in Medicine.**Pediatrician to the Freedmen's Hospital and to the Eastern Dispensary and Casualty Hospital.*

212 Maryland Ave., N. E.

CHARLES FRANKLIN CRAIG, M.D.,

*Associate Professor of Pathology and Bacteriology.*

Captain, Medical Corps, U. S. Army; Assistant Curator, Army Medical Museum;  
Instructor in Pathology and Bacteriology, U. S. Army Medical School.

1930 Biltmore St., N. W.

CLINICAL PROFESSORS.

THOMAS A. CLAYTOR, M.D.,

*Clinical Professor of Medicine.*

Visiting Physician to the Garfield Memorial Hospital and to the Tuberculosis  
Hospital of the District of Columbia.

1315 New Hampshire Ave.

ALBERT L. STAVELY, M.D.,

*Clinical Professor of Gynecology.*

Gynecologist to the Garfield Memorial Hospital.

1744 M St., N. W.

ARTHUR A. SNYDER, M.D.,

*Clinical Professor of Surgery.*

Attending Surgeon to the Garfield Memorial Hospital and to the Women's Clinic.

3051 N St., N. W.

JOHN R. WELLINGTON, M.D.,

*Clinical Professor of Surgery.*

Visiting Surgeon to the Garfield Memorial Hospital, to the Casualty Hospital and  
to the Children's Hospital; *Associate in Surgery to The George Washington Uni-  
versity Hospital.*

1723 Connecticut Ave., N. W.

LUTHER H. REICHELDERFER, M.D.,

*Clinical Professor of Surgery.*

Attending Surgeon to the Garfield Memorial Hospital, and to the Hospital for  
Tuberculosis, District of Columbia.

1721 Connecticut Ave., N. W.

ASSOCIATES.

JOHN B. NICHOLS, M.D.,

*Associate in Medicine and in Dietetics.*

Pathologist to the Garfield Memorial Hospital and to the Episcopal Eye, Ear and  
Throat Hospital.

1321 Rhode Island Ave.



## EDWARD F. MORSE, L.M., M.D.,

*Associate in Obstetrics.*Obstetrician to the Providence Hospital and to the Freedmen's Hospital; *Associate in Obstetrics to The George Washington University Hospital and Dispensary.*

1539 I St., N. W.

## EDWARD G. SEIBERT, M.D.,

*Associate in Chemistry and Instructor in Laryngology and Ophthalmology.*Assistant Surgeon to the Lutheran Infirmary; *Associate in Laryngology and Ophthalmology to The George Washington University Hospital; Laryngologist and Ophthalmologist to the George Washington University Dispensary.*

916 14th St., N. W.

## JULIAN M. CABELL, M.D.,

*Associate in Obstetrics.*Associate in Obstetrics to Columbia Hospital for Women; *Associate in Obstetrics to The George Washington University Hospital and Dispensary.*

The Mansfield.

## CHARLES STANLEY WHITE, M.D.,

*Associate in Surgery.*Associate in Surgery to the Central Dispensary and Emergency Hospital; Assistant Coroner, District of Columbia; *Associate in Surgery to The George Washington University Hospital.*

The Farragut.

## H. H. DONNALLY, A.M., M.D.,

*Associate in Medicine and Clinical Associate in Pediatrics.*Attending Physician to the Home for Incurables; Member of the Dispensary Staff, Children's Hospital; *Associate in Medicine to The George Washington University Hospital.*

1018 14th St., N. W.

## WM. F. M. SOWERS, A.B., M.D.,

*Associate in Surgery.*Associate Surgeon to the Providence Hospital; Visiting Surgeon to the Washington Hospital for Foundlings and to the Freedmen's Hospital; *Associate in Surgery to The George Washington University Hospital.*

1707 Massachusetts Ave.

## G. BROWN MILLER, B.S., M.D.,

*Associate in Gynecology.*Attending Gynecologist to the Central Dispensary and Emergency Hospital; Associate Gynecologist to the Columbia Hospital for Women; *Associate in Gynecology to The George Washington University Hospital.*

1730 K St., N. W.

HENRY R. ELLIOTT, M.D.,

*Associate in Physiology and Pharmacology.*

Physician to the Central Dispensary and Emergency Hospital; Assistant in Genito-Urinary Surgery to The George Washington University Hospital and Dispensary.

The Farragut.

J. LEWIS RIGGLES, M.D.,

*Associate in Anatomy and Gynecology.*

Assistant Obstetrician to the Columbia Hospital for Women; Attending Gynecologist to The George Washington University Dispensary.

1224 K St., N. W.

HENRY J. NICHOLS, M.D.,

*Associate in Bacteriology and Pathology.*

Captain, Medical Corps, U. S. Army; Instructor in Pathology and Bacteriology, U. S. Army Medical School.

The Westmoreland.

WILBUR R. BRANDENBURG, M.D.,

*Associate in Bacteriology and Pathology.*

1101 14th St., N. W.

JOHN SWEYN NEATE, M.D.,

*Associate in Pathology and Bacteriology.*

Microscopist, Army Medical Museum; Assistant Pathologist to The George Washington University Hospital and to the Columbia Hospital.

1509 28th St., N. W.

W. W. WILKINSON, M.D.,

*Associate in Medicine.*

Assistant Pathologist to the Garfield Memorial Hospital.

The Rochambeau.

# CLINICAL ASSOCIATES.

EDGAR P. COPELAND, M.D.,

*Clinical Associate in Pediatrics.*

Member of the Dispensary Staff of the Children's Hospital and of the Board of Medical Examiners of the District of Columbia; Associate in Pediatrics to The George Washington University Hospital and Dispensary.

The Rockingham.

JOHN T. KELLY, M.D.,

*Clinical Associate in Obstetrics.*

Gynecologist to Providence Hospital; Obstetrician-in-Chief to the Columbia Hospital for Women.

1312 15th St., N. W.



W. ASHBY FRANKLAND, M.D.,

*Clinical Associate in Gynecology.*

Gynecologist to the Casualty Hospital and Eastern Dispensary; *Attending Physician to The George Washington University Dispensary.*

The Champlain.

FRANK LEECH, M.D.,

*Clinical Associate in Pediatrics.*

Member of the Dispensary Staff of the Children's Hospital.

1372 Columbia Road, N. W.

### INSTRUCTORS.

T. M. PRICE, PH.D.,

*Instructor in Biochemistry.*

The Iowa.

O. D. SWETT, M.S.,

*Instructor in Chemistry.*

Chevy Chase, Md.

WALTER H. MERRILL, M.D.,

*Instructor in Electro-Therapeutics.*

Radiographer to the Garfield Memorial Hospital; *Radiographer to The George Washington University Hospital and Dispensary.*

1913 14th St., N. W.

O. A. M. McKIMMIE, M.D.,

*Instructor in Laryngology and Otology.*

Associate Physician to the Episcopal Eye, Ear and Throat Hospital.

The Rockingham.

H. S. DYE, M.D.,

*Instructor in Laryngology and Otology.*

Assistant in Laryngology to the Central Dispensary and Emergency Hospital.

1327 L St., N. W.

TRUMAN ABBE, M.D.,

*Instructor in Genito-Urinary Surgery.*

Anaesthetist to the Columbia Hospital for Women; *Assistant, Genito-Urinary Service, The George Washington University Dispensary.*

1819 M St., N. W.

J. LAWN THOMPSON, M.D.,

*Instructor in Surgery.*

*Attending Surgeon to The George Washington University Dispensary.*

1112 New York Ave.

DEPARTMENT OF MEDICINE.

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CHARLES W. HYDE, M.D.,

*Instructor in Medicine.*

*Anaesthetist to The George Washington University Hospital,*

*The Plymouth.*

ARTHUR L. HUNT, M.D.,

*Instructor in Minor Surgery.*

*Anaesthetist to The George Washington University Hospital; Attending Surgeon to  
The George Washington University Dispensary.*

*The Burlington.*

E. T. M. FRANKLIN, M.D.,

*Instructor in Surgery.*

*Attending Surgeon to The George Washington University Dispensary.*

*1315 19th St., N. W.*

W. J. FRENCH, M.D.,

*Instructor in Pediatrics.*

*Assistant Pediatrician to the Central Dispensary and Emergency Hospital.*

*1736 18th St., N. W.*

ADAM KEMBLE, M.D.,

*Instructor in Gynecology.*

*Attending Gynecologist to The George Washington University Dispensary.*

*The Cecil.*

VERGIL B. JACKSON, M.D.,

*Instructor in Gynecology.*

*Assistant Surgeon to the Central Dispensary and Emergency Hospital; Attending  
Gynecologist to The George Washington University Dispensary.*

*The Brunswick.*

SOTHORON KEY, M.D.,

*Instructor in Medicine.*

*1716 H St., N. W.*

H. G. FULLER, M.D.,

*Instructor in Genito-Urinary Surgery and Venereal Diseases.*

*Assistant, Genito-Urinary Service, The George Washington University Hospital and  
Dispensary.*

*1615 Florida Ave., N. W.*

CLINE CHIPMAN, M.D.,

*Instructor in Minor Surgery.*

*Anaesthetist to The George Washington University Hospital.*

*629 G St., S. W.*



GEORGE H. SCHWINN, M.D.,

*Instructor in Psychiatry and Neurology.*

Physician to the Government Hospital for the Insane.

Government Hospital for Insane.

HARRY W. MILLER, M.D.,

*Instructor in Psychiatry and Neurology.*

Physician to the Government Hospital for the Insane.

Government Hospital for Insane.

B. R. LOGIE, M.D.,

*Instructor in Neurology.*

Psychiatrist to the District of Columbia; Director of The George Washington University Dispensary.

1792 Columbia Road, N. W.

JOHN P. FILLEBROWN, M.D.,

*Instructor in Physiology and Surgery.*

Attending Surgeon to The George Washington University Dispensary.

Stoneleigh Court.

C. B. CONKLIN, M.D.,

*Instructor in Medicine.*

Attending Physician to The George Washington University Dispensary.

Rhode Island Ave. and 20th St., N. E.

C. AUGUSTUS SIMPSON, M.D.,

*Instructor in Dermatology.*

Attending Dermatologist to The George Washington University Dispensary.

The Burlington.

JOHN BRADFORD BRIGGS, B.S., M.D.,

*Instructor in Pathology and Bacteriology.*

1628 K St., N. W.

MILTON HAHN, M.D.,

*Instructor in Pediatrics.*

Attending Pediatrician to The George Washington University Dispensary.

1701 H St., N. W.

WILLIAM JOHNSTON MALLORY, M.D.,

*Instructor in Medicine.*

Attending Physician to The George Washington University Dispensary.

1720 Connecticut Ave., N. W.

DEPARTMENT OF MEDICINE.

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ALBERT PERKINS TIBBETS, A.B., M.D.,

*Instructor in Anatomy.*

Assistant Surgeon, Surgical Clinic, Eastern Dispensary and Casualty Hospital.  
1616 I St., N. W.

HARRY HYLAND KERR, M.D.,

*Instructor in Surgery.*

Surgeon to the Freedmen's Hospital and Assistant Surgeon to the Providence  
Hospital,  
1742 N St., N. W.

ALEXANDER Y. P. GARNETT, M.D.,

*Instructor in Obstetrics.*

Obstetrician and Gynecologist, Episcopal Clinic; Physician, Outpatient Department,  
Providence Hospital.  
1219 Connecticut Ave., N. W.



THE STAFF OF THE GEORGE WASHINGTON UNIVERSITY HOSPITAL AND DISPENSARY.

HOSPITAL.

STERLING RUFFIN, M.D.	Physician-in-Chief
GEORGE N. ACKER, M.D.,	} Associate Physicians
H. H. DONNALLY, M.D.,	
B. M. RANDOLPH, M.D.,	
W. C. BORDEN, M.D.	Surgeon-in-Chief
C. S. WHITE, M.D.,	} Associate Surgeons
JOHN R. WELLINGTON, M.D.,	
W. F. M. SOWERS, M.D.,	
A. R. SHANDS, M.D.	Orthopedic Surgeon
FRANCIS R. HAGNER, M.D.	Genito-Urinary Surgeon
HENRY R. ELLIOTT, M.D.,	} Associate Genito-Urinary Surgeons
HOMER G. FULLER, M.D.,	
J. WESLEY BOVÉE, M.D.	Gynecologist-in-Chief
G. BROWN MILLER, M.D.	Associate Gynecologist
A. F. A. KING, M.D.	Obstetrician-in-Chief
E. E. MORSE, M.D.,	} Associate Obstetricians
J. M. CABELL, M.D.,	
GEORGE N. ACKER, M.D.	Pediatrician-in-Chief
FRANK FREMONT-SMITH, M.D.,	} Associate Pediatricians
E. P. COPELAND, M.D.,	
HENRY C. YARROW, M.D.	Dermatologist-in-Chief
RANDOLPH B. CARMICHAEL, M.D.	Associate Dermatologist
CHAS. W. RICHARDSON, M.D.	Laryngologist
D. KERFOOT SHUTE, M.D.	Ophthalmologist
W. K. BUTLER, M.D.	Ophthalmologist
E. G. SEIBERT, M.D.	Associate Laryngologist and Ophthalmologist
WALTER H. MERRILL, M.D.	Radiographer
F. F. RUSSELL, M.D.	Pathologist-in-Chief
J. S. NEATE, M.D.	Associate Pathologist
CHARLES W. HYDE, M.D.,	} Anaesthetists
ARTHUR L. HUNT, M.D.,	
CLINE CHIPMAN, M.D.,	
J. P. FREY, M.D.	Resident Physician
R. H. DUENNER, M.D.	Assistant Resident Physician
E. G. BAUM, M.D.	Assistant Resident Physician
W. A. H. PAIGE, M.D.	Assistant Resident Physician
C. LE R. BROCK, M.D.	Assistant Resident Physician
G. Q. EPPARD, M.D.	Assistant Resident Physician
J. L. LEAR.	Pharmacist and Extern
G. A. SCHAUB.	Extern
L. A. LA GARDE, JR.	Extern
A. E. PAGAN.	Extern
J. C. ECKHARDT.	Extern
Miss B. B. THOMPSON.	Superintendent of Nurses and Principal of the Training School for Nurses

## DISPENSARY.

A. F. A. KING, M.D.	Obstetrician-in-Chief
STERLING RUFFIN, M.D.	Physician-in-Chief
J. WESLEY BOVÉE, M.D.	Gynecologist-in-Chief
WM. C. BORDEN, M.D.	Surgeon-in-Chief
BENJ. R. LOGIE, M.D.	Director of the Dispensary

## General Medicine.

B. M. RANDOLPH, M.D.,	} .....Attending Physicians
W. A. FRANKLAND, M.D.,	
W. C. MOORE, M.D.,	
C. B. CONKLIN, M.D.,	
W. J. MALLORY, M.D.,	

## General Surgery.

J. LAWN THOMPSON, M.D.,	} .....Attending Surgeons
A. L. HUNT, M.D.,	
E. T. M. FRANKLIN, M.D.,	
J. P. FILLERBROWN, M.D.,	

## Genito-Urinary Diseases.

FRANCIS R. HAGNER, M.D.	Genito-Urinary Surgeon
HENRY R. ELLIOTT, M.D.,	} .....Associates
HOMER G. FULLER, M.D.,	
TRUMAN ABBE, M.D.,	

## Gynecology.

J. L. RIGGLES, M.D.,	} .....Attending Gynecologists
V. B. JACKSON, M.D.,	
ADAM KEMBLE, M.D.,	

## Obstetrics.

E. E. MORSE, M.D.,	} .....Obstetricians
J. M. CABELL, M.D.,	

## Eye, Ear, Throat, and Nose.

E. G. SEIBERT, M.D.	Laryngologist and Ophthalmologist
C. C. AMMERMAN, M.D.	Asst. Laryngologist and Ophthalmologist

## Neurology.

B. R. LOGIE, M.D.	Neurologist
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## Electro-Therapeutics.

W. H. MERRILL, M.D.	Electro-Therapeutist
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## Dermatology.

C. A. SIMPSON, M.D.	Attending Dermatologist
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## Pediatrics.

MILTON HAHN, M.D.	Attending Pediatrician
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### HISTORICAL.

The Department of Medicine of the George Washington University, in the chronological order of establishment, is the seventeenth Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an act of Congress approved January 23, 1904, the Columbian University changed its name to "The George Washington University."

When first established, and for many years thereafter, this school, like most others in this country, gave only a two years' course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session, devoted to lectures in certain special subjects. In 1879 the course was lengthened to seven months and attendance upon three annual sessions required, and in 1893 attendance on four annual courses was made obligatory upon all candidates for the degree of Doctor of Medicine. In order to increase the facilities for actual bedside teaching, the University Hospital and the University Dispensary were established in 1898 and made a part of the Department of Medicine. In 1902 the old Medical College building, in which the exercises had been held since 1867, gave place to the present large and commodious structure.

### EDUCATIONAL POSITION.

The Medical Department of the University has been for several years a member of the Association of American Medical Colleges. It is one of Medical Colleges designated as "acceptable, class A," by the American Medical Association, and it is accredited for all its work by the Combined (Royal) Medical Examining Boards in England.

These facts guarantee the character of the work done by the College and insures its students and graduates all the advantages which accrue from such association and recognition.

### BUILDINGS AND OTHER FACILITIES.

The Buildings of the Medical Department adjoin each other and consist of the Medical College Building and the University Hospital and the University Dispensary. They are most advantageously situated in the heart of the city near both systems of car lines. As the Hospital and Dispensary adjoin the College, their clinical facilities are easily accessible to the students, and the pathological material and the material for clinical microscopy and clinical chemistry afforded by the Hospital and Dispensary are directly used in the College laboratories.

The Medical College Building is a modern, commodious, five-story structure, with spacious, well-lighted, well-ventilated lecture and

class rooms, laboratories, and students' rooms. It has an elevator service, and is equipped throughout with steam heat, gas, electricity, and all modern improvements.

The **Laboratories**, five in number (for anatomy, chemistry, histology and embryology, physiology and pharmacology, and bacteriology and pathology), are fully equipped with the most approved appliances, so that students may adequately pursue the laboratory courses and acquire the technical skill necessary in modern clinical and research methods.

The **University Medical Library** is open for study and consultation from 9 a. m. to 9 p. m. It contains at present more than 3,000 volumes, and provision is made to add to it as published the important new works on medicine. The most important medical periodicals are regularly received. The Library is an excellent working collection, as it affords opportunity to adequately read up on the subjects presented in the courses.

The **Pathological Museum** contains a great many valuable and interesting specimens. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

#### ADVANTAGES OF LOCATION.

The advantages of Washington as a place for pursuing the study of medicine are many. This city now has nearly four hundred thousand inhabitants, providing abundant clinical material to the hospitals, which have an aggregate of over three thousand beds. In these hospitals clinical instruction, in addition to that in the University Hospital, is given by members of the Faculty.

The *great libraries and museums* connected with the various Government institutions afford unparalleled facilities for study.

The Library of the Surgeon General's Office of the United States Army is the most complete medical library in the world. All the facilities of this great library are open to medical students. There is also the Library of Congress, the Public Library, and the many excellent libraries of the various Government offices, all of which are open to students.

The *Army Medical Museum* affords an unrivaled opportunity for studying the conditions met with in military and general surgery. It contains on exhibition a collection of anatomical and pathological specimens unequalled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy and the National Museum which contains the most complete and best arranged collection of materia medica in the world. The drugs are shown in all their processes of manufacture. The Botanic



Gardens, the Smithsonian Institution, the Fish Commission, the Department of Agriculture, all afford opportunities for study both in medicine and its collateral sciences.

On account of the many advantages offered in this city, the *Army and Navy Medical Schools* have been here located. The Alumni of this College are largely represented in all public services, and have been highly successful in passing the rigid examinations by them. Ten per cent of the total number of the regular medical corps of the United States Army are graduates of this College.

*Aside from the special advantages offered for the study of medicine, the cosmopolitan character of the city of Washington, its climate (not excessively cold in winter), its beauty, and its interests, which, as it is the seat of the General Government, are broad and national, make it an ideal place for a medical student to pass his four years of study.*

#### ADMISSION.

The requirements for admission are those of the Association of American Medical Colleges, and are as follows:

Candidates for matriculation must present creditable certificates of good moral character from two physicians in good standing.

The educational requirements for admission are—

- (a) A Bachelor's degree from an approved college or university.
- (b) A diploma from an accredited high school, normal school, or academy requiring for admission evidence of the completion of an eight-year course in primary and intermediate grades; and for graduation not less than four years of study.
- (c) Candidates not having a Bachelor's degree or a diploma from an accredited high school or academy may be admitted upon passing an examination in the following branches:

1. Required (18 points); Mathematics (4 points); English (4 points); History (2 points); Language (4 points—Latin, French, German); Science (taken from physics, chemistry, botany, zoölogy), 4 points.

2. Optional (to 12 points taken from); English (4 points); History (6 points); Language (6 points); Manual Training (2 points); Mechanical Drawing (1 point); Natural Science (botany, biology, and zoölogy, 2 points each); Astronomy, Civics, Geology, Physical Geography, Physiology and Hygiene, Political Economy (2 points each).

These examinations are conducted by the University, and will be held in the latter part of May and September. Candidates desiring examination must submit their certificates of character to the Dean before the first of the month in which they desire to be examined.

Certificates from reputable instructors recognized by the State Board of Medical Examiners duly authorized by law or by the Superintendent

of public instruction in States having no examining board may be accepted in lieu of any part of the examination.

A student may be allowed to enter on his medical work conditioned in not more than six points, and these conditions must be removed by satisfactory examination before he is allowed to enter on the second year of his medical course.

(One point in any subject in a high school or academic course demands not less than five periods per week of forty-five minutes each for eighteen weeks.)

As the laws relating to the preliminary educational qualifications required of physicians differ in many of the States of the Union, candidates are advised to make themselves familiar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

#### ADMISSION OF STUDENTS FROM OTHER SCHOOLS.

Students who have attended one or more terms at any other medical college in good standing, and who have the necessary preliminary educational requirements, may be admitted to advanced standing upon passing the examination required of students for the stage at which they propose to enter, or upon presenting certificates of examination covering courses equal to those in this College.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted as special students without examination to pursue any course they may elect.

#### ACADEMIC YEAR.

The Academic Year begins on the last Wednesday in September and ends on the first Wednesday in June. It is divided into two semesters of four months each.

The term of study for the degree of Doctor of Medicine consists of four years of eight months each. The next session, the ninety-first, begins September 27, 1911, and ends June 5, 1912.

Students must register promptly at the beginning of the session, in order that their time of study shall count as a full year.

Degrees are conferred at Commencement, the second Wednesday in June.

#### Optional Five-Year Course.

Since the session of 1904-05 a five-year optional course has been offered for the benefit of students. Students in this course take their subjects with the regular four-year classes, but as they take fewer subjects each year, they are able to devote more time to each study.



## SYSTEM OF INSTRUCTION.

Instruction is carried on by laboratory work, recitations, lectures, bedside instruction, and hospital and dispensary clinics. Particular stress is laid upon laboratory work and clinical teaching. The clinical material of the University Hospital and Dispensary is utilized to the fullest extent, as the Hospital, the Dispensary, and the Medical College are under the same control. Additional clinics are given in other hospitals in the city to which members of the faculty are attached.

While the greatest stress is laid upon laboratory work and clinical teaching, it is recognized that the facts so obtained must be correlated and shown in their due relation to each other and to the science of medicine. To this end didactic lectures are maintained in certain branches, as they have been found necessary to give a systematic and comprehensive idea of the larger subjects in medicine. These lectures are followed by systematic and thorough quizzes, so that it may be certain that the students properly and thoroughly grasp the ideas presented by the lecturers.

The recitation and quiz work is made so complete that students do not need to employ private quizmasters.

The object sought throughout the courses is to thoroughly ground the students in the knowledge which is necessary to the practitioner of medicine. No particular attempt is made to graduate specialists in any subject. It is believed that the four years allowed are no more than sufficient time for the adequate preparation of the general practitioner.

*The policy adopted by the College is to give a comprehensive, well-graded, and well-proportioned course—one that will adequately prepare the graduate to practice general medicine and meet the requirements of State Boards.*

## ORDER OF INSTRUCTION.

The subjects studied in each year are shown in the following table. Major subjects are in italics:

First Year.	Second Year.	Third Year.	Fourth Year.
<i>Anatomy.</i> <i>Histology.</i> <i>Embryology.</i> <i>Physiology.</i> <i>General Chemistry.</i>	<i>Organic and Physiological Chemistry.</i> <i>Pathology.</i> <i>Bacteriology.</i> Clinical Microscopy. Topographical Anatomy <i>Materia Medica.</i> Pharmacology. Minor Surgery. Physical Diagnosis. Pathological Physiology.	<i>Medicine.</i> <i>Surgery.</i> Surgical Pathology. Fractures and Dislocations. <i>Obstetrics.</i> <i>Therapeutics.</i> Electro- Therapeutics. <i>Gynecology.</i> Medical Jurisprudence. Applied Anatomy. Clinical Chemistry. Hygiene. Dietetics. <i>Clinics.</i>	<i>Medicine.</i> Case Teaching. <i>Surgery.</i> Orthopædics. Genito-Urinary Diseases. Operative Surgery. <i>Obstetrics.</i> <i>Gynecology.</i> Laryngology and Otology. Ophthalmology. Applied Anatomy. Dermatology Psychiatry. Pediatrics. Neurology. Tropical Diseases. <i>Clinics.</i>

The greater part of the fourth year is devoted to clinical work in the hospitals. During this year, however, general instruction is also given in Mental Diseases, Neurology, Dermatology, Ophthalmology, Laryngology, and Otology. Not less than 1,000 hours of clinical work are required.

## ANATOMY.

WM. CABELL MOORE, A.M., M.D.....	Professor of Anatomy
D. KERFOOT SHUTE, M.D.....	Professor of Neuro-Anatomy
J. L. RIGGLES, M.D.....	Associate in Anatomy
ALBERT P. TIBBETS, A.B., M.D.....	Instructor in Anatomy

During the first year the course in Anatomy is given mainly by practical laboratory work. Each student is required to dissect satisfactorily the lateral half of a cadaver. The dissecting-room work is supplemented by demonstrations, recitations, and lectures, illustrated by lantern slides, models, and diagrams.

Throughout the course every opportunity is taken to emphasize the application of anatomy to the practice of medicine in all its departments.



Osteology and Syndesmology are taught by recitations and demonstrations at the beginning of the course, preparatory to the more advanced studies in Anatomy.

In the second year a course in Topographical Anatomy is given, in which recitations and laboratory demonstrations are used to thoroughly familiarize the student with the subject. In the fourth year a course is given in the general application of Anatomy to Medicine and Surgery. In this way a thorough preparation in general and applied anatomy is given.

*First Year.*

	HOURS.			Total.
	Lect.,	Rec., Dem.	Lab.	
Gross Anatomy .....	120		360	480

*Second Year.*

Topographical Anatomy .....	20		60	80
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*Fourth Year.*

Applied Anatomy .....	16		...	16
Totals.....	156		420	576

### HISTOLOGY AND EMBRYOLOGY.

H. W. LAWSON, M.S., M.D.... Professor of Histology and Embryology

Instruction is given in the care and use of the microscope and in the preparation of tissues for microscopical examination, and a systematic study is made of the minute structure of the tissues and organs of the body, the laboratory work being supplemented by recitations.

*First Year.*

	HOURS.			Total.
	Lect.,	Rec., Dem.	Lab.	
Histology .....	32		96	128
Embryology .....	16		48	64
Totals.....	48		144	192

### PHYSIOLOGY.

SHEPHERD IVORY FRANZ, Ph. D..... Professor of Physiology

HENRY R. ELLIOTT, M.D..... Associate in Physiology

JOHN P. FILLENBROWN, M.D..... Instructor in Physiology

The course in Physiology consists of lectures, recitations, conferences, demonstrations, and laboratory exercises, during the second half of the

first year. The lectures cover all the important facts and theories regarding bodily functions, and are illustrated by diagrams, models, and prepared specimens. Recitations are held on assigned parts of the textbook. Conferences are held on special physiological topics, and for these exercises each student is required to prepare one thesis during the semester. In the laboratory each student performs a number of experiments on blood, on the circulation, on digestion, on the general functions of muscle and nerve, on the nervous system, and on the special senses. The student is required to make and keep records of the experiments, and these are criticised by the instructors. The class is divided into sections, so that each student receives a large amount of personal attention. In the second year a series of exercises is held in which special emphasis is laid on the relation of normal physiological function to the disturbances of function in disease, and upon the physiological action of drugs. It is intended in this way to bring the work of the Physiological Laboratory and other exercises into closer relation with succeeding courses in Pathology, Therapeutics, and General Medicine.

*First Year.*

	HOURS.			Total.
	Lect.,	Rec.,	Dem.	
Physiology .....		48	192	240

*Second Year.*

Pathological Physiology .....	...	16	16
Totals.....	48	208	256

## CHEMISTRY.

CHARLES E. MUNROE, Ph.D.... Professor of Chemistry and Toxicology  
 EDWARD G. SEIBERT, M.D..... Associate in Chemistry  
 THOMAS M. PRICE, Ph.D..... Instructor in Biochemistry  
 OTIS D. SWETT, B.S..... Instructor in Chemistry

General Chemistry. A series of illustrated lectures accompanied by recitations, laboratory work, and exercises, on theoretical, inorganic, organic, and technical chemistry.

Organic Chemistry. A series of lectures, laboratory work, and recitations on the acyclic and cyclic hydrocarbons and their derivatives, with special reference to physiology and medicine.

Physiological Chemistry. A series of lectures, laboratory work, and recitations on the proximate principles of the human body.

Biochemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the



products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vivo*. DR. PRICE.

Clinical Chemistry. A thorough course is given in which material from the University Hospital and Dispensary is utilized to show the practical application of this subject in medicine.

*First Year.*

	HOURS.			Total.
	Lect., Rec., Dem.	Lab.		
General Chemistry .....	96	96		192

*Second Year.*

Organic Chemistry.....	64	56	120
Physiological Chemistry .....	24	56	80

*Third Year.*

Clinical Chemistry .....	...	24	24
Totals.....	184	208	416

**MATERIA MEDICA AND THERAPEUTICS.**

B. M. RANDOLPH, M.D.....Professor of Materia Medica and Therapeutics

NOBLE P. BARNES, M.D.....Associate Professor of Materia Medica and Therapeutics

HENRY R. ELLIOTT, M.D.....Associate in Pharmacology

WALTER H. MERRILL, M.D.....Instructor in Electro-Therapeutics

Second year. (1) Lectures upon Materia Medica, including a demonstration of drugs and their preparations. (2) Recitations upon the preparations, their doses, and the various antidotes for poisons. (3) Practical exercises in prescription writing. (4) Demonstrations of drugs.

Third year. (1) Systematic lectures upon the physiological action of drugs and their effects in health and disease, their therapeutic uses, and their methods of administration. (2) Lectures and section demonstrations in electro-therapeutics. (3) Prescription writing, in which the students are given hypothetical cases for which to prescribe, the prescriptions being reported before the class for criticism and discussion.

*Second Year.*

	HOURS.			Total.
	Lect., Rec., Dem.	Lab.		
Pharmacology .....	...	64		64
Materia Medica and Toxicology.....	160	...		160

*Third Year.*

	HOURS.			
	Lect.,	Rec.,	Dem.	Lab.
Therapeutics .....	64	...	...	64
Electro-Therapeutics .....	16	...	...	32
Totals.....	240	...	...	320

**DIETETICS.**

J. B. NICHOLS, M.D.....Associate in Medicine

A course of lectures and quizzes on the principles of feeding in health and disease.

*Third Year.*

	HOURS.			
	Lect.,	Rec.,	Dem.	Lab.
Dietetics .....	...	...	...	32
				32

**PATHOLOGY AND BACTERIOLOGY.**

FREDERICK F. RUSSELL, M.D....Professor of Pathology and Bacteriology  
 C. F. CRAIG, M.D....Associate Professor of Pathology and Bacteriology  
 H. J. NICHOLS, M.D.....Associate in Pathology and Bacteriology  
 W. R. BRANDENBURG, M.D....Associate in Pathology and Bacteriology  
 J. S. NEATE, M.D.....Associate in Pathology and Bacteriology  
 J. B. BRIGGS, M.D.....Associate in Pathology and Bacteriology

*Bacteriology.*—The first part of the session is devoted to a laboratory course of instruction in the fundamental principles and methods of pure bacteriology. A thorough drilling is given in the preparation of culture media, in sterilization and disinfection, staining, and in the several methods of differentiating bacteria.

*Pathology.*—The course in Pathology comprises general and special pathology and clinical microscopy. Post-mortem examinations will be utilized when possible. Coincidentally with the above is included the study of the principal pathogenic bacteria; the principles of immunity and serum therapy.

The course of instruction in special pathology will include the study of those processes requiring surgical relief; the healing of wounds and other injuries; of special diseases, neoplasms, and problems of experimental pathology.

The course in Clinical Microscopy comprises the study and examination of various tissues, fluids, and material from the standpoint of diagnosis.





through the third and fourth years. During the latter two years the course consists of lectures, recitations, a study of case histories, clinical conferences, and practical work in the clinical laboratory and at the bedside. The work is made as practical as possible.

The third-year class is divided into small sections, which are required to attend the daily dispensary service in the University Hospital, where they are drilled especially in history-taking and in the technique of practical physical diagnosis.

The fourth-year class is similarly divided into small sections, and these are required to attend the daily ward clinics in the University Hospital and ward clinics in the Garfield Memorial Hospital, Children's Hospital, and the Tuberculosis Hospital of the District of Columbia.

The system of ward clinics to small groups of students affords a most effective method of studying disease and gives to every student an opportunity of following a large assortment of diseases from their commencement to the termination of illness; in no other way is it possible to get a more practical knowledge of the methods of studying disease or a more intimate knowledge of disease itself.

Every patient in the medical wards of the University Hospital is assigned to one, or at most two, senior students, who are required (under proper supervision) to take the history, to make and record a complete physical examination, to determine after due study the nature of the illness (diagnosis), to outline a plan of treatment, and to make daily notes of the progress of the case.

A weekly amphitheater clinic is given to third-year students in a body and a similar clinic to the fourth-year class. A series of special neurological clinics is provided for the senior class at the Government Hospital for the Insane, where there is a great wealth of material.

#### *Second Year.*

	HOURS.			
	Lect.	Rec.	Dem.	Clinics.
Physical Diagnosis .....			64	...
				Total
				64

#### *Third Year.*

General Medicine .....	128	128	256
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#### *Fourth Year.*

General Medicine .....	128	192	320
Totals .....	320	320	640



**TROPICAL MEDICINE.**

C. S. BUTLER, M.D., Surg. U.S.N., Professor of Tropical Diseases,  
Instructor in Bacteriology and Tropical Diseases,  
U. S. Navy Medical School

The course in tropical diseases is similar to that given in the Army and Navy Medical Schools, and consists of didactic lectures, quizzes, and laboratory instruction, with particular reference to the parasitic, protozoal diseases common in the tropics and in the southern part of the United States.

*Fourth Year.*

	Hours.
Tropical Medicine, 1 hour, Feb.-May.....	16

**PSYCHIATRY AND CLINICAL NEUROLOGY.**

WILLIAM A. WHITE, M.D., Superintendent of the Government Hospital for the Insane.....Professor of Psychiatry and  
Clinical Neurology  
B. J. LOGIE, M.D.....Instructor in Neurology  
GEO. H. SCHWINN, M.D.....Instructor in Psychiatry and Neurology  
H. W. MILLER, M.D.....Instructor in Psychiatry and Neurology

A series of lectures and clinics is given upon the subject of insanity in its various forms.

These clinics are given at the Government Hospital for the Insane, which, with its more than two thousand beds, affords one of the largest clinics in this country.

*Fourth Year.*

	Hours.
Psychiatry and Neurology, 1 hour, Jan.-May. Dr. WHITE.....	20
Clinical Psychiatry, 1 hour, Jan.-May. Drs. SCHWINN and MILLER.....	20

**PEDIATRICS.**

GEORGE N. ACKER, A.M., M.D.....Professor of Pediatrics  
EDGAR P. COPELAND, M.D.....Associate in Pediatrics  
H. H. DONNALLY, M.D.....Clinical Associate in Pediatrics  
FRANK LEECH, M.D.....Clinical Associate in Pediatrics  
W. J. FRENCH, M.D.....Instructor in Pediatrics

Didactic and clinical lectures, bedside and dispensary clinics are given upon diseases of infants and children and the importance of the proper management of these diseases by diet and hygiene.

The children's clinic, at the Children's Hospital, affords ample material for practical teaching in this branch.

## DEPARTMENT OF MEDICINE.

167

*Fourth Year.*

	Hours.			Total.
	Lect., Rec., Dem.	Clinica.		
Pediatrics .....	32	62		94

**PHYSICAL DIAGNOSIS.**

W. W. WILKINSON, M.D.....Associate in Medicine

A complete course is given in this subject by means of recitations, section work on normal subjects, and with clinical cases which typically represent diseased conditions.

*Second Year.*

	Hours.			Total.
	Lect., Rec., Dem.	Clinica.		
Physical Diagnosis.....	32	32		64

**SURGERY.**

WILLIAM CLINE BORDEN, M.D.....Professor of Surgery  
 A. R. SHANDS, M.D.....Professor of Orthopedic Surgery  
 ARTHUR A. SNYDER, M.D.....Clinical Professor of Surgery  
 FRANCIS R. HAGNER, M.D.....Professor of Genito-Urinary Surgery  
 L. A. LA GARDE, M.D.....Professor of Military Surgery  
 CHARLES S. WHITE, M.D.....Associate in Surgery  
 JOHN R. WELLINGTON, M.D.....Clinical Professor of Surgery  
 W. F. M. SOWERS, A.B., M.D.....Associate in Surgery  
 L. H. REICHELDERFER, M.D.....Clinical Professor of Surgery  
 I. LAWN THOMPSON, M.D.....Instructor in Surgery  
 CHARLES W. HYDE, M.D.....Instructor in Minor Surgery  
 A. L. HUNT, M.D.....Instructor in Minor Surgery  
 E. T. M. FRANKLIN, M.D.....Instructor in Surgery  
 CLINE CHIPMAN, M.D.....Instructor in Minor Surgery  
 H. H. KERR, M.D.....Instructor in Surgery

The principles of surgery are presented in a systematic course of lectures, so that the student may obtain a comprehensive and adequate concept of the science and art of surgery. These lectures are followed by recitations held twice a week, so that the subject-matter may be thoroughly impressed upon the students. The special divisions of surgery are taught by associates and instructors who have made specialties of these branches. The clinical material in the University Hospital and Dispensary, being under the control of the Faculty, is directly used throughout the course to illustrate the subjects taught and to familiarize the students with actual clinical conditions.



Surgical technique is taught by instruction in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the patient, and the sterilization of instruments. Practical instruction is given in the Hospital and Dispensary in the application of splints, bandages, and dressings used in the various surgical diseases and injuries. Thorough instruction and practical demonstrations are given in the administration of anæsthetics.

Clinical teaching is carried on in the University Hospital and Dispensary, and in other hospitals of the city to which members of the Faculty are attached. Amphitheater clinics are given, in which the general practice of surgical diagnosis and operative technique and therapeutic procedure are shown. Senior students are assigned in rotation to individual cases in the wards of the University Hospital.

Ward clinics and bedside instruction are made a prominent part of the course. The class is divided into sections, which are regularly assigned to clinical work in the University Hospital and Dispensary, and in other hospitals.

Practical work is required of each student in the preparation of dressings, sterilization of instruments, etc.

In the fourth year a thorough course is given in surgical anatomy and operative surgery of the cadaver, in connection with which the instructor takes up a general review of anatomy, so that the student may be thoroughly prepared for State Board examinations after graduation.

*Second Year.*

	Hours.			
	Lect.	Rec.	Dem.	Clinics.
Minor Surgery .....		64		...
				Total.
				64

*Third Year.*

General Surgery .....	96	}	256	496
Surgical Pathology .....	24			

*Fourth Year.*

General Surgery .....	96	}	256	580
Orthopedics .....	24			
Genito-Urinary .....	24			
Gunshot Wounds .....	8			
Totals.....	324		256	580

**SURGICAL PATHOLOGY.**

W. F. M. SOWERS, M.D.....Associate in Surgery

Surgical pathology is taught by thorough instruction in the gross and microscopic appearance of surgical diseases and injuries, and by a systematic course of lectures and quizzes by which the etiology, pathology, symptomatology, and treatment of the surgical affections and their relations to each other are shown.

**ORTHOPEDICS.**

A. R. SHANDS, M.D.....Professor of Orthopedics

A course of lectures and recitations on the pathology, etiology, course, termination, and treatment of chronic joint diseases, with clinical instruction in the application of special apparatus and of plaster of Paris to the correction of deformities.

**GENITO-URINARY DISEASES.**

FRANCIS R. HAGNER, M.D.....Professor of Genito-Urinary Diseases

A thorough course of instruction in genito-urinary diseases is given by lectures, recitations, section clinics, and bedside teaching.

**GUNSHOT WOUNDS.**

LOUIS A. LA GARDE, M.D.....Professor of Military Surgery

The treatment of gunshot wounds with special reference to civil practice is given in a course of lectures and demonstrations, fully illustrated by lantern slides, X-ray photographs, and actual specimens from the Army Medical School.

**OBSTETRICS.**

A. F. A. KING, A.M., M.D., LL.D.....Professor of Obstetrics

EDWARD E. MORSE, M.D.....Associate in Obstetrics

JULIAN M. CABELL, M.D.....Associate in Obstetrics

A. Y. P. GARNETT, M.D.....Instructor in Obstetrics

The course in Obstetrics comprises a series of lectures on the science and art of midwifery, together with practical work. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books so as to render them more easily intelligible and to indicate their relative importance. The lectures are illustrated by dia-



grams, models, manikins, natural preparations, and instruments. The class is divided into sections, and each student performs various obstetrical operations upon the manikin and receives practical instruction in external pelvimetry and the methods of abdominal palpation and auscultation during pregnancy. Recitations from text-books are held throughout the term. In the fourth year clinical instruction in obstetrics is given, the class being divided into small sections and each section being given bedside instruction and the individual students are required to attend a stated number of cases.

*Third Year.*

	HOURS.			
	Lect.	Rec.	Dem.	Clinics.
Obstetrics .....		128		*
				Total.
				128

*Fourth Year.*

Obstetrics .....	32	*	32
	—	—	—
Totals .....	160	...	160

## GYNECOLOGY.

J. WESLEY BOVÉE, M.D.....	Professor of Gynecology
G. BROWN MILLER, M.D.....	Associate in Gynecology
A. L. STAVELY, M.D.....	Clinical Professor of Gynecology
W. A. FRANKLAND, M.D.....	Instructor in Clinical Gynecology
J. LEWIS RIGGLES, M.D.....	Instructor in Gynecology
VERGIL B. JACKSON.....	Instructor in Gynecology
ADAM KEMBLE, M.D.....	Instructor in Gynecology

Gynecology as taught in the third year comprises a course of lectures and text-book recitations. In the fourth year individual students are assigned to cases in the wards of the University Hospital, and the class is taken in sections of one to two students each into the Gynecological Dispensaries for clinical instruction in examinations, diagnosis, and treatment. In larger sections the class attends amphitheater clinics given by the Professors of Gynecology and Clinical Gynecology.

*Third Year.*

	HOURS.			
	Lect.	Rec.	Dem.	Clinics.
Gynecology .....		32		32
				Total.
				64

\* Number of clinic hours cannot be given, but each student is required to attend five cases, exclusive of demonstration work.

*Fourth Year.*

	Hours.		
	L-ct., Rec., Dem.	Clinics.	Total.
Gynecology .....	32	32	64
Totals.....	64	64	128

**LARYNGOLOGY AND OTOTOLOGY.**

CHARLES W. RICHARDSON, M.D., Professor of Laryngology and Otology  
 O. A. M. McKIMMIE, M.D., Instructor in Laryngology and Otology  
 H. S. DYE, M.D., Instructor in Laryngology and Otology  
 E. G. SEIBERT, M.D., Instructor in Laryngology and Otology

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

*Fourth Year.*

	Hours.
Lectures, 3 hours, Oct.-Nov. Professor RICHARDSON.....	24
Clinics. Professor RICHARDSON, Dr. DYE, Dr. McKIMMIE, and Dr. SEIBERT.....	24

**OPHTHALMOLOGY.**

W. K. BUTLER, M.D., Professor of Ophthalmology  
 D. KERFOOT SHUTE, A.B., M.D., Associate Professor of Ophthalmology  
 E. G. SEIBERT, M.D., Instructor in Ophthalmology

The course of lectures on this subject is to direct attention to the elementary principles of the subject. It is not intended to qualify the student as a specialist, but to give him a knowledge of what every general practitioner ought to know. The course is supplemented by clinical instruction.

*Fourth Year.*

	Hours.
Lectures, 1 hour, Oct.-Dec. Professor BUTLER.....	12
Clinics. Professors BUTLER and SHUTE and Dr. SEIBERT.....	12

**DERMATOLOGY.**

R. B. CARMICHAEL, M.D., Professor of Dermatology  
 C. A. SIMPSON, M.D., Instructor in Dermatology

The lectures in this course will be principally clinical, supplemented



by didactic lectures, illustrated by diagrams, models, and photographic illustrations of disease from life.

*Fourth Year.*

	Hours.
Lectures, 1 hour, Oct.-Dec. Professor YARROW.....	14
Clinics, Oct.-Dec. Professors YARROW and CARMICHAEL.....	12

**HYGIENE.**

D. W. PRENTISS, M.D.....Professor of Hygiene

The course in Hygiene is given principally by recitation from a prescribed text-book. Consideration is given to domestic and municipal sanitation and to the principles underlying legislative control of public health.

*Fourth Year.*

	Hours.
Lectures and recitations, 1 hour. Professor PRENTISS.....	32

**MEDICAL JURISPRUDENCE.**

W. C. WOODWARD, M.D.....Professor of Medical Jurisprudence

This course is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

*Third Year.*

	Hours.
Lectures, 1 hour, Feb.-May. Professor WOODWARD.....	16

**CLINICAL FACILITIES.**

The following hospitals are open to the students of this school for clinical study, and are extensively used for that purpose:

University Hospital and the University Dispensary, H St., between Thirteenth and Fourteenth Sts., N.W., and adjacent to the Medical Building.—The Hospital and Dispensary are part of the educational equipment of the University. They are integral parts of the Department of Medicine, are entirely controlled by the Faculty of Medicine, and are used primarily in instructing the students in clinical medicine, surgery, and obstetrics. The Dispensary has a large out-patient service in all departments, to which several thousand visits are made annually.

The staff is composed of members of the Faculty of Medicine.

**Garfield Memorial Hospital**, Florida Ave. and Tenth St., N. W.—This institution has 118 charity beds. Clinics are given regularly throughout the session by members of the Faculty connected with the visiting staff of the hospital. There is also an out-patient department, giving good opportunities for experience in the practice of physical diagnosis.

Members of the Faculty on the visiting staff: Professors CLAYTON and MORGAN, Clinical Medicine; Professors SNYDER, WELLINGTON, and REICHELDERFER, Clinical Surgery; Professor STAVELY, Clinical Gynecology; Professor CARMICHAEL, Clinical Dermatology; Professors SHUTE and BUTLER, Clinical Ophthalmology; Professor HAGNER, Clinical Genito-Urinary Surgery; Professor YARROW, Consulting Physician.

**Children's Hospital**, W St., between Twelfth and Thirteenth Sts., N. W.—Regular instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department.

Members of the Faculty on the visiting staff: Professors KING and YARROW, Consulting Physicians; Professor WELLINGTON, Clinical Surgery; Professor ACKER and Drs. COPELAND, DONALLY, and LEECH, Clinical Medicine.

**Emergency Hospital and Central Dispensary**, Fifteenth St. and Ohio Ave., N. W.—This hospital has 36 charity beds, and has a very large out-patient service. The large emergency service gives exceptional facilities in clinical surgery.

Members of the Faculty on the visiting staff: Professor HAGNER, Clinical Genito-Urinary Diseases; Drs. WHITE and JACKSON, Surgery; Professor MORGAN and Dr. ELLIOTT, Clinical Medicine; Professor CARMICHAEL, Clinical Dermatology; Dr. MILLER, Clinical Gynecology; Professor SHANDS, Orthopedics; Professor SHUTE, Ophthalmology; Dr. FRENCH, Pediatrics.

**Columbia Hospital for Women**, Twenty-fifth St. and Pennsylvania Ave., N. W.—This hospital has 68 charity beds for diseases peculiar to women, and 50 charity maternity beds. Both the obstetrical and the gynecological services are particularly good.

Members of the Faculty on the visiting staff: Professor BOVÉE and Dr. MILLER, Clinical Gynecology; Drs. KELLY, CABELL, and RIGGLES, Clinical Obstetrics; Professor SHUTE, Ophthalmology; Professor RUFFIN, Visiting Physician.

**Providence Hospital**, Second and D Sts., S. E.—This institution has a large charity service—100 beds for medical and surgical cases and 30 maternity beds.

Members of the Faculty on the visiting staff: Professor RICHARDSON,



Clinical Laryngology and Otology; Professor SHUTE, Clinical Ophthalmology; Dr. SOWERS, Clinical Surgery; Professor CARMICHAEL, Dermatology; Dr. MORSE, Obstetrics.

**The Government Hospital for the Insane.**—This hospital is maintained by the United States Government. It has 2,500 beds. Clinical instruction in mental diseases is given by the superintendent of the hospital, Professor W. A. WHITE, and Drs. SCHWINN and MILLER. Other members of the Faculty on service at this hospital are Professors FRANZ and BLACKBURN; Professor SHUTE, Consulting Ophthalmologist; Professor RUFFIN, Consulting Physician.

**Episcopal Eye, Ear, Throat, and Nose Hospital, Fifteenth St., between L and M Sts., N. W.**—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital.

Members of the Faculty on its staff: Professor RICHARDSON, Clinical Otology and Laryngology; Drs. McKIMMIE and DYE, Clinical Otology and Laryngology; Professor ACKER, Consulting Physician.

**Lutheran Dispensary, Fourteenth and N Sts., N. W.**—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose.

Members of the Faculty on its staff: Professor BUTLER, Surgeon-in-Charge; Dr. SEIBERT, Ophthalmology; Professor ACKER, Consulting Physician.

**Casualty Hospital, 708 Massachusetts Ave., N. E.**—Opportunities in emergency and dispensary work are offered by this institution.

Members of the Faculty on its staff: Professor ACKER, Consulting Physician; Dr. BARNES, Clinical Medicine; Dr. MEDFORD, Obstetrics.

**Woman's Clinic, 1237 T St., N. W.**—Members of the Faculty on its staff: Professor YARROW, Consulting Physician; Professor SNYDER, Attending Surgeon.

**Tuberculosis Hospital, 14th and Upshur Sts., N. W.**—Members of the Faculty on its staff: Professor CLAYTOR and Dr. RANDOLPH, Clinical Medicine; Dr. REICHELDERFER, Clinical Surgery; Professor RICHARDSON, Ophthalmology.

## CLASSIFICATION AND ADVANCEMENT OF STUDENTS.

Students are divided into four classes, according to their proficiency and the time spent, viz: first year, second year, third year, and fourth year.

Proficiency in all subjects is marked on a scale of 100.

Examinations are held at the end of the course in each subject.

In determining the proficiency of a student his laboratory and clinical

work, his quiz record, attendance, and result of examination are all considered.

To be **advanced** a student must obtain a general average of 75 or more in all subjects of the year, and must not fail in more than one major or two minor subjects.

Students who obtain a general average of 75 or more, but who fail in not more than one major or two minors, may be advanced **conditioned** and may be permitted at the next examination period a re-examination in the subjects in which they fail, but all conditions must be removed before a student can be again advanced.

Students who fail of advancement or graduation will not be allowed re-examination and must repeat all subjects in which they obtained less than 85 during the year, and pass an examination on all majors of preceding years in which they obtained less than 85 before they can be advanced or graduated. Students who fail to appear at the regular examinations will not be examined until the next regular examination, except by special permission of the Faculty, and in this event a fee of \$5.00 will be charged for each subject. Students who fail to pass satisfactorily their practical laboratory examinations will be required to repeat the laboratory courses and pay the regular laboratory fees. Students will not be admitted to examination unless they have paid all fees due at the time.

A student who has failed of graduation after repeating his final year will not be permitted to maintain his connection with the school.

#### REQUIREMENTS FOR GRADUATION.

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character. He must have complied with the admission and other requirements herein set forth. He must have attended at least 80 per cent of all required instruction during four sessions of eight months each in four separate years, must have satisfactorily completed all his courses and passed all his examinations. He must be present at the time specified for the final examinations, and also at Commencement. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges who desire degrees must spend one year in residence at this school.

Candidates who in their work and examinations attain general averages of 90 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction."



### SCHOLARSHIPS.

Four scholarships are provided for students.

**CORCORAN SCHOLARSHIPS.**—In recognition of the liberality of the late W. W. Corcoran in endowing the University for the Department of Medicine, the Faculty of Medicine has established in the department four free scholarships.

Two of these scholarships are open for competitive examination to the graduates of the several high schools of the District of Columbia and are awarded to the two students whose averages are highest.

One scholarship is open for competitive examination to graduates of any reputable high school or college who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry, and is awarded to the graduate whose average is highest.

The remaining scholarship is open for competitive examination to students who, though not graduates of any high school or college, give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry, and is awarded to the student whose average is highest.

In establishing these averages professional aptitude and general qualifications are considered along with scholastic ability.

Applications for scholarships should be filed with the Dean not later than May 15. Students holding scholarships pay the matriculation, library, laboratory, and graduation fees, and make the deposit to cover breakage. Holders of scholarships must maintain a satisfactory scholastic average.

### PRIZES.

A prize from the Ordranax Prize Endowment will be awarded under conditions determined by the University authorities.

Professor ACKER gives a prize for the best examination in Pediatrics.

Professor BUTLER gives a prize for the best examination in Ophthalmology.

Professor HAGNER gives a prize for the best examination in Genito-Urinary Diseases.

### HOSPITAL APPOINTMENTS.

Interns are annually appointed in the University Hospital. The externs are appointed from the student body. These appointments are made upon competitive examinations under conditions determined by the governing authorities of the Hospital. Appointments to similar posi-

tions are open to the graduates and undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear, Throat, and Nose Hospital.

### FEES AND CONTINGENT EXPENSES.

1. Matriculation (payable but once).....	\$5
2. Annual library fee.....	3
3. Tuition fee per annum, including all charges for materials.....	150
4. Graduation fee .....	10
5. Fee for a certificate under the seal of the University.....	2

A deposit of \$10 to cover breakage in laboratory courses and damage to the building or apparatus is required. Any unforfeited balance is returned to the student.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session, when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Dean.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$5
Microscope for Bacteriological, Pathological, and Clinical Microscopy Laboratory use.....	6

Matriculation, library, other special fees and laboratory deposits are due in full in advance. Tuition and laboratory material fees are due in eight monthly instalments in advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Treasurer of the University.

### WITHDRAWALS.

A certificate of work actually done will be given to any student wishing to withdraw or transfer to some other school during the session. Written notice of such withdrawal or transfer must be filed with the Dean at the time of requesting the certificate, and the student must have paid all fees and dues chargeable against him up to the end of the quarter in which he withdraws.



**BOARD AND ROOMS.**

A register of boarding houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

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For catalogues, application blanks, and further information, address

THE DEAN,

*Department of Medicine,  
The George Washington University,  
1325 H Street, N. W.,  
Washington, D. C.*

## DEPARTMENT OF DENTISTRY.

### FACULTY.

- CHARLES HERBERT STOCKTON, LL.D.....PRESIDENT OF THE UNIVERSITY  
 JOHN ROLAND WALTON, D.D.S.....Professor of Prosthetic Dentistry  
 and Orthodontia, and Dean, 724 9th Street, N. W.  
 HENRY CLAY THOMPSON, D.D.S.....Professor of Operative Dentistry  
 CHARLES EDWARD MUNROE, Ph.D.....Professor of Chemistry  
 SHEPHERD IVORY FRANZ, Ph.D.....Professor of Physiology  
 WILLIAM CABELL MOORE, A.M., M.D.....Professor of Anatomy  
 DANIEL KERFOOT SHUTE, M.D.....Professor of Neuro-Anatomy  
 HURON WILLIS LAWSON, M.D.....Professor of Histology and  
 Embryology  
 CHARLES STANLEY WHITE, M.D.....Professor of Oral Surgery  
 FREDERICK FULLER RUSSELL, M.D.....Professor of Bacteriology and  
 Pathology  
 NOBLE PRICE BARNES, M.D.....Professor of Materia Medica and  
 Therapeutics  
 JOHN ROBERT DE FARGES, D.D.S.....Associate Professor of Dental  
 Metallurgy, Jurisprudence, Economics, and Ethics  
 ALLEN SCOTT WOLFE, D.D.S.....Associate Professor of Crown and  
 Bridge Work  
 CADMUS LINDEN ODOR, D.D.S.....Associate Professor of Operative  
 Technics  
 WILLIAM FRANCIS LAWRENCE, D.D.S.....Associate Professor of  
 Prosthetic Technics  
 ARTHUR B. CRANE, D.D.S.....Associate Professor in Oral Surgery  
 EDWARD GRANT SEIBERT, M.D.....Associate in Chemistry  
 OTIS DOW SWETT, M.S.....Instructor in Chemistry  
 J. LEWIS RIGGLES, M.D.....Associate in Anatomy  
 ALBERT PERKINS TIBBETS, A.B., M.D.....Instructor in Anatomy  
 HARRY RANDALL ELLIOTT, M.D.....Associate in Physiology  
 JOHN POTTS FILLEBROWN, M.D.....Instructor in Physiology  
 CHARLES FRANKLIN CRAIG, M.D.....Associate in Bacteriology and  
 Pathology  
 HENRY JAMES NICHOLS, M.D.....Associate in Bacteriology and  
 Pathology  
 WILBUR R. BRANDENBURG, M.D.....Associate in Bacteriology and  
 Pathology  
 JOHN SWEYN NEATE, M.D.....Associate in Bacteriology and Pathology  
 FENTON BRADFORD, D.D.S.....Lecturer in Dental Materia Medica and  
 Therapeutics



JOHN WINSLOW TAYLOR, D.D.S.....Instructor in Prosthetic Technics  
HENRY CISELL YOUNG, D.D.S.....Instructor in Prosthetic Technics  
CHARLES GARDNER SHOEMAKER, D.D.S.....Instructor in Operative Technics  
HERBERT CORNWELL HOPKINS, D.D.S.....Instructor in Orthodontia Technics  
HERMON ARDELL FORDYCE, D.D.S.....Lecturer in Oral Prophylaxis

### GENERAL STATEMENT.

The first course of lectures in the Dental School began November, 1887, under the title of "The Columbian University Dental Department." The course then extended over two years of five months each. Two years later the course was extended to seven months; but, this additional time being found inadequate to keep pace with the ever-increasing demand for higher dental education, the course was gradually increased, until now it extends over three years of eight months each.

The academic year begins on the last Wednesday in September and ends on the second Wednesday in June. The next session will begin September 27, 1911. Students should register promptly at the office of the Dean at the beginning of the session, and no student can be received and credited with a full term after ten days from the first lecture. Final examinations are held at the conclusion of the instruction in each subject. The degrees are conferred at Commencement, the first Wednesday in June. For further information communicate with the Dean of the Dental Department or the Secretary of the University.

### ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study dentistry. For this purpose they must present a satisfactory certificate of their attainments from an approved school or college, or they must pass an examination.

Candidates are admitted without examination:

(1) Upon presenting a diploma or certificate of a reputable college conferring on them the degree of A.B. or S. B., or an equivalent degree in the arts and sciences.

(2) Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved by the University as maintaining an adequate standard.

(3) Upon presenting a certificate of admission to the Freshman class of an approved college.

(4) Upon presenting a certificate of admission to another dental school approved by the University as maintaining an adequate standard.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement of an accredited high school or its equivalent, modified to meet the regulations of State Dental Boards.

The scope of the different subjects is indicated in standard high school text-books.

A candidate may offer certificates of an approved school for work done in any preparatory subjects, and will be credited with the units represented by such work. A candidate failing to pass in two of three subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

The examinations for admission will be held in June and September, at the Dental Department. An applicant deficient in either Latin or Physics, or both, may be admitted to the first-year class conditioned in those subjects, but such conditions must be made up during the first year.

### COURSE OF INSTRUCTION.

The course of instruction extends through three years of eight months each. The subjects taught during the course are divided as follows:

First Year.	Second Year.	Third Year.
Anatomy.	Organic Chemistry.	Operative Dentistry.
Physiology.	Operative Dentistry.	Orthodontia.
General Chemistry.	Prosthetic Dentistry.	Prosthetic Dentistry.
Histology.	Pathology.	Comparative Dental
Operative Technics.	Materia Medica.	Anatomy.
Prosthetic Technics.	Operative Technics.	Oral Surgery.
Special Anatomy.	Prosthetic Technics.	Orthodontia Technics.
	Infirmity Practice.	Metallurgy.
	Bacteriology.	Prosthetic Technics.
	Dental Histology.	Infirmity Practice.
	Orthodontia Technics.	Dental Therapeutics.
	Infirmity Practice.	Dental Pathology.
	Clinics.	Dental Bacteriology.
		Dental Jurisprudence,
		Economics and
		Ethics.
		Infirmity Practice.
		Clinics.



These studies are further described in the following pages.

Hours of recitation, daily from 4.50 p. m. to 10.30 p. m.; 6.30 to 7.30 p. m., dinner hour.

### PROSTHETIC DENTISTRY AND ORTHODONTIA.

JOHN ROLAND WALTON, D.D.S.....Professor  
HERBERT CORNWELL HOPKINS, D.D.S.,  
Instructor in Orthodontia Technics

1. Prosthetic Dentistry. All branches in this department will be under the supervision of the professor. He will deliver the lectures and manage in person and through his assistants the quiz work and course of instruction. This system will prevent confusion in method and technical procedures.

2. Orthodontia. Junior year Orthodontia is a technical course with lectures and demonstrations. The Senior year is a review of the Junior studies with advanced lectures upon the irregularities of the teeth, local and constitutional. Each student is required to make a number of appliances upon models and practically correct cases of irregularity.

### OPERATIVE DENTISTRY, DENTAL ANATOMY AND PATHOLOGY.

HENRY C. THOMPSON, D.D.S.....Professor

This course embraces lectures on the special anatomy and physiology of the teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by proficient operators. Extended consideration is given to dental pathology and therapeutics. This chair has personal supervision of the department of Operative Technics.

### CHEMISTRY.

CHARLES EDWARD MUNROE, Ph.D.....Professor  
EDWARD GRANT SEIBERT, M.D.....Associate  
OTIS DOW SWETT, M.S.....Instructor

The instruction in this subject embraces:

A short discussion of the principles of Physics in their relation to Chemistry, the principle of chemical philosophy, and the laws of chemical combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their applica-

tion in dentistry; Organic Chemistry, with special attention to those organic compounds that are of practical use; laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

### PHYSIOLOGY.

SHEPHERD IVORY FRANZ, Ph.D.	Professor
HENRY RANDALL ELLIOTT, M.D.	Associate
JOHN POTTS FILLEBROWN, M.D.	Instructor

This subject is taught in lectures, recitations and laboratory exercises. In the lectures and recitations special emphasis is placed upon those parts of physiology that have a known bearing upon dental medicine and surgery, especially digestion, secretion and the nervous system. Three laboratory periods a week during a semester give the students first-hand knowledge of the principal facts about the general functions of tissues, and the special functions of the nervous system, the special senses, the heart, circulation, digestion, and respiration.

### ANATOMY.

WILLIAM CABELL MOORE, A.M., M.D.	Professor
DANIEL KERFOOT SHUTE, M.D.	Professor
J. LEWIS RIGGLES, M.D.	Associate
ALBERT PERKINS TIBBETS, A.B., M.D.	Instructor

The instruction in Anatomy is given in a graded course of lectures, recitations from prescribed text-books, and especially by practical work in the dissection of the cadaver. The lectures are illustrated by the use of dry and wet dissections of the cadaver, by models, diagrams, charts, and sciopticon views.

Practical work in osteology and in dissection of the head are of fundamental importance. For the study of these subjects the class is divided into sections in order to make the instruction as practical as possible. The bones of the skeleton are placed in each student's hands, and he is instructed and quizzed upon all their important features.

### MATERIA MEDICA AND THERAPEUTICS.

NOBLE PRICE BARNES, M.D.	Professor
FENTON BRADFORD, D.D.S.	

Lecturer on Dental Materia Medica and Therapeutics

Instruction in these subjects embraces:

The study of crude drugs and their preparations and the art of prescribing; the physiological action of drugs in the human system; the practical application of drugs and other therapeutical agencies to the



prevention and cure of diseases and the relief of suffering, together with their antidotal relation to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

Special attention is given to those drugs that are of most value in the practice of dentistry.

#### ORAL SURGERY.

CHAS. STANLEY WHITE, M.D.....Professor  
ARTHUR B. CRANE, D.D.S.....Associate Professor

Instruction in this subject will consist of didactic lectures, recitations, case histories, together with clinics at regular intervals.

The lectures will deal with surgical bacteriology and pathology, surgical technique, anesthesia, wounds, hemorrhage, shock, new growths, constitutional diseases, plastic operations upon the palate and face, dislocation and fracture of the maxillæ. Charts, diagrams, photographs and stereopticon slides will supplement the lectures.

In the clinics at the Emergency Hospital, illustrative cases will be shown. The students will be expected to attend such operations which pertain to this subject.

#### HISTOLOGY.

HURON WILLIS LAWSON, M.D.....Professor

The course in Histology consists in a systematic presentation of the subject of the minute anatomy of the various parts of the body, especial attention being devoted to the histology of the teeth and neighboring structures. The subject is presented partly by systematic lectures, and more especially by the practical study by the individual students of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory. The projection microscope, affording valuable aid in illustrating and presenting the subject, is constantly used.

#### PATHOLOGY AND BACTERIOLOGY.

FREDERICK FULLER RUSSELL, M.D.....Professor  
CHARLES FRANKLIN CRAIG, M.D.....Associate Professor  
HENRY JAMES NICHOLS, M.D.....Associate  
WILBUR R. BRANDENBURG, M.D.....Associate  
JOHN SWEYN NEATE, M.D.....Associate

The course begins with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the student required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyrogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

### PROSTHETIC TECHNICS.

WILLIAM FRANCIS LAWRENCE, D.D.S... Associate Professor Senior Year  
JOHN WINSLOW TAYLOR, D.D.S..... Instructor Junior Year  
HENRY CISSEL YOUNG, D.D.S..... Instructor Freshman Year

The technic laboratories are thoroughly equipped for their particular work. The course in prosthetic technics extends through the Freshman, Junior, and Senior years.

The first year is a technical and didactic course. The students are taught the proper equipment of a dental laboratory; the preparation of the mouth for dentures; methods of taking impressions of the mouth and manipulation of the various impression materials; the preparation and mounting of models; selection and artistic arrangement of teeth; the construction of plastic dentures and crowns with general details.

In the Junior class the course is a review of the Freshman year with extended technical and didactic work, embracing a practical course in the swaging of the various metals, as taking impressions, making models and dies, swaging, rimming, attaching teeth by rubber, and in general construction of metal dentures, crown and bridge work.

The Senior year is a practical course, embracing the swaging of plates, teeth attached by soldering, clasps, porcelain work, advanced bridge-



work, removable bridges, and the detailed construction of all work in prosthetic dentistry.

The work of the Department is under the immediate supervision of the associate professor.

### OPERATIVE TECHNICS.

CADMUS LINDER ODOR, D.D.S.....Associate Professor  
CHARLES GARDNER SHOEMAKER, D.D.S.....Instructor

This subject is taught by lectures, illustrated by enlarged models and drawings, together with demonstrations of instruments and materials. The students perform exercises in manipulative procedure under the direction of the instructors.

The subjects embraced in the course consist, first, of the study of dental nomenclature, that the student may acquire an understanding of the technical terms used in the course of his dental studies. This is followed by descriptive dental anatomy and the forms and surface markings of each tooth studied, the natural teeth, as well as enlarged models and drawings being used for the purpose. Each student is required to make various sections of the teeth for the thorough study of the pulp chambers and root canals and their relations to the external surfaces of the teeth.

That tooth-forms may be more perfectly impressed upon the mind of the students, each one is required to carve a tooth of the several classes, as incisor, cuspid, bicuspid, and molar, in bone or artificial ivory, representing the actual form and size of the natural organ. Cavities are classified and illustrated by drawings and models, followed by their preparation and filling in technic forms by the student. Treating and filling root canals is given full attention, the students performing operations of this kind upon natural teeth mounted for the purpose.

All work, in its relation to operative dentistry, is given the necessary consideration to fit the student for meeting, as far as possible, the actual requirements of the infirmary. The operations in the technic department require a large number of natural teeth and a sufficient supply is difficult to obtain.

### COMPARATIVE DENTAL ANATOMY.

The senior students will study in this course the food habits and the teeth of animals. The forms of teeth and their uses as weapons of offense and defense will be studied.

### CROWN AND BRIDGE WORK, GOLD INLAY, AND PORCELAIN.

ALLEN SCOTT WOLFE, D.D.S. .... Associate Professor

### METALLURGY.

JOHN ROBERT DE FARGES, D.D.S. .... Associate Professor

The subject of Metallurgy taught in the chemical laboratory will be reviewed and an extended course will be given in metals, alloys, and amalgams which are used in dentistry.

### PROFESSIONAL ETHICS, DENTAL JURISPRUDENCE AND ECONOMICS.

These lectures on ethics consist of a brief statement of the moral obligations of professional men to each other and to their patients and upholding the honor and dignity of the profession, the differences between the profession, business and manufacturing pursuits.

The lectures on jurisprudence will follow the text-book by Dr. Reh fuss, which fully elucidates the legal relation of the dentist to his patients, the importance of dental records, the limitations of dental practice, the liabilities incurred by those who administer anesthetics, the penalties, etc.

*Economics.*—This course will instruct the student in the proper methods to insure a practice and to retain patients; will discuss business relations between patients and dentists, fees, book and card systems, and the general economy in conducting an office.

Instruction in this course is systematically given by lectures and clinics. The course in technique extends through the Freshman, Junior, and Senior years.

Students are taught the principles and practice of inlay work, porcelain crowns, high and low fusing bodies, the use of the electric and gas furnaces.

### ORAL PROPHYLAXIS.

HERMON ARDELL FORDYCE, D.D.S. .... Lecturer

This subject will be taught didactically, and clinically practical work by the students in the treatment of the oral cavity will be required.

### THE DENTAL INFIRMARY.

CHARLES TURK BASSETT, D.D.S. .... Associate Professor in Charge  
MARION EDWYN HARRISON, D.D.S. .... Demonstrator  
JOHN WINSLOW TAYLOR, D.D.S. .... Demonstrator  
HENRY CISSEL YOUNG, D.D.S. .... Demonstrator  
MELVILLE PALMER ESLIN, D.D.S. .... Demonstrator  
JAMES NORRIS ROBINSON, D.D.S. .... Demonstrator



The Infirmary is open every week-day the entire year. An abundance of clinical material is readily available. In fact, as many patients present themselves as can possibly be attended to by the students. It is under the immediate supervision of the Demonstrator in charge, who is present from 1 until 5 o'clock.

#### CLINICAL STAFF.

CAESARE LOUIS CONSTANTINI, D.D.S.....	Clinician in Charge
ARTHUR DURDAN WEAKLEY, D.D.S.....	Clinical Instructor in Dentistry
THOMAS LOCKE RUST, D.D.S.....	Clinical Instructor in Dentistry
GEORGE BERTRAM ROPER MACDONALD, D.D.S.....	Clinical Instructor in Dentistry
WILLIAM CARL KILLINGER, D.D.S....	Clinical Instructor in Orthodontia
MARK FLORUS FINLEY, D.D.S.....	Clinical Instructor in Orthodontia
ALEXANDER DUNNINGTON COBEY, D.D.S.....	Clinical Instructor in Non-Cohesive Gold
GEORGE MILLER SHARP, D.D.S.....	Clinical Instructor in Special Crown Work
ZENAX WILBUR ALDERMAN, D.D.S.....	Clinical Instructor in Electro- Therapeutics
ROBERT EDWIN LAYTON, D.D.S.....	Clinical Instructor in Dentistry

#### TEXT-BOOKS AND WORKS OF REFERENCE.

(The works first named and in *italics* are preferred.)

**Anatomy.**—*Cunningham's Text-book of Anatomy*; *Cunningham's Manual of Practical Anatomy*; Dental Anatomy, Black's.

**Physiology.**—Raymond's Human Physiology; Howell's Text-book of Physiology; Tigerstedt's Text-book of Physiology.

**Pathology and Bacteriology.**—Delafield and Prudden's Pathology; Jordan's Bacteriology.

**Chemistry.**—*Simon's Chemistry*.

**Materia Medica.**—*H. C. Wood's Therapeutics*; Hare's Practical Therapeutics; A. A. Stevens' Modern Materia Medica and Therapeutics; Culbreath's Materia Medica and Pharmacy; National Dispensatory Reference Text-books, Osborne, Wilcox, Sollmann, Shoemaker, U. S. Pharmacopœia and National Formulary; Dental Materia Medica and Therapeutics (Prinz); Modern Dental Materia Medica, Therapeutics, and Pharmacology (Buckley); Medical Dictionary (Dorland).

**Prosthetic Dentistry.**—*The American Text-book of Prosthetic Dentistry*; Essig's Dental Metallurgy.

**Operative Dentistry.**—*Harris' Principles of Practice*; Tome's Dental Anatomy and Surgery; Taft's Operative Dentistry; American System of Dentistry (Litch); Kirk's Operative Dentistry; Johnson's Operative Dentistry.

**Oral Surgery.**—Marshall's Oral Surgery; Grant's Oral Surgery.

**Histology.**—Nichols, Böhm and Davidoff; Anatomy and Histology of the Mouth, by Bromell.

**Orthodontia.**—Angle, Treatment of Malocclusion of the Teeth and Fractures of the Maxillæ; Talbot, Irregularities of the Teeth; Jackson, Orthodontia.

**Dental Jurisprudence.**—Rehfuss.

**Dental Pathology and Therapeutics.**—Burchard.

**Comparative Dental Anatomy.**—Thompson.

### GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of eight months' duration, and three courses of clinical instruction in this Department, during the regular winter term and in separate years. Students are examined at the end of the regular course upon all subjects taught them during that course. Should the student fail in his examination in course, he may be reëxamined in the fall. All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular course. They may register at any time during the Infirmary course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate for graduation must be examined upon all subjects taught in this Department, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the Museum a well-constructed specimen of dental mechanism made by himself in the dental laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the sessions, must comply with



the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

The degrees are conferred by The George Washington University, incorporated by Act of Congress of the United States.

#### PRIZE AWARDS 1910-11.

The FIRST PRIZE for the best record throughout the course of three years was awarded to Eugene Roger Stone, whose average was 92.2 per cent. Honorable mention was made of John McGirk McCausland, whose average was 88.8 per cent.

The J. ROLAND WALTON PRIZE for the best Prosthetician was awarded to Eugene Roger Stone. Honorable mention was made of John McGirk McCausland.

The HENRY C. THOMPSON PRIZE for the best Operator in the Dental Infirmary was awarded to Eugene Roger Stone. Honorable mention was made of Lloyd Y. Beera and John McGirk McCausland.

#### COURSES IN ARTS AND SCIENCES.

Students taking a full course for a degree may be admitted without additional fee, except laboratory fees, to courses for which they are qualified, in the Department of Arts and Sciences, the aggregate of such courses not to exceed six hours per week.

#### LOCATION.

The Dental Building is No. 1325 H Street, N. W. It is within half a square of all lines of street cars going to every part of the city.

The Dean may be seen personally at 724 9th street N. W., on any week day, and also at the Dental Building, 1325 H street, N. W., on Tuesday and Thursday of each week at 4.30 p. m. during the session.

#### FEES AND CONTINGENT EXPENSES.

1. Matriculation fee (payable once).....	\$5
2. Annual library fee.....	2
3. Tuition fee per annum, including all charges for materials.....	125
4. Late registration fee in the case of students registering for the first term after October 20, or for the second term after February 20, excepting for courses which do not begin with the terms .....	2
5. Fee for graduation.....	10
6. Tuition fee per annum for any year repeated once.....	75
In addition to the tuition fees for special or repeated laboratory courses, a charge will be made for materials used.	
7. Fee for a certificate under the seal of the University.....	2

8. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.
9. A deposit of \$10 to cover breakage in laboratory courses and damage to the building or apparatus is required. Any unforfeited balance is returned to the student.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form and from the end of the current month when such withdrawals shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form, to be obtained from the Dean, and will only be received at the end of a quarter session.

Students are furnished microscopes at the following rates:

Microscope for histological laboratory use.....	\$5
Microscope for bacteriological, pathological, and clinical micro- copy laboratory use.....	6
Cost of text-books, about.....	30
Cost of instruments, first year.....	20

#### PAYMENT OF FEES.

Matriculation, library, other special fees and laboratory deposits are due in full in advance. Tuition and laboratory material fees are due in eight monthly instalments in advance. Students who are unable to pay their fees monthly in advance will be required to file an acceptable personal or corporate bond for \$200 as security for future payment. In every instance all indebtedness must be discharged on or before May 1 of the current school year. All fees are payable at the office of the Treasurer of the University.

#### BOARD AND ROOMS.

A register of boarding-houses is kept by the Treasurer. Accommodations cost from \$25 to \$40 a month.

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For catalogues, application blanks and further information, address

J. ROLAND WALTON, D.D.S., *Dean,*

724 9th Street, N. W.



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### PART III.

#### ASSOCIATED COLLEGES.

National College of Pharmacy.

College of Veterinary Medicine.

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Institutions in the District of Columbia organized as corporations under the Charter of the University, having separate financial foundations but educationally forming a part of the system of the University.



TRUSTEES OF THE NATIONAL COLLEGE OF  
PHARMACY.President of the University, *ex-officio* Member of the Board.

## 1911.

C. B. CAMPBELL, M.D., Phar.D.	LEWIS FLEMER, Phar.D.
HERBERT C. EASTERDAY, Phar.D.	WILLARD S. RICHARDSON, Phar.D.

## 1912.

FRANK C. HENRY, Phar.D.	H. E. KALUSOWSKI, M.D., Phar.D.
AUGUSTUS C. TAYLOR, Phar.D.	SAMUEL L. HILTON, Phar.D.

## 1913.

WYMOND H. BRADBURY, Phar.D.	JAMES K. EPPLEY, Phar.D.
SAMUEL WAGGAMAN, M.D.	FRANK P. WELLER, Phar.D.

## OFFICERS OF THE BOARD.

H. E. KALUSOWSKI, Chairman.	W. H. BRADBURY, Secretary.
FRANK C. HENRY, Vice-Chairman.	HERBERT C. EASTERDAY, Treasurer.

CHARLES HERBERT STOCKTON, LL.D. .... PRESIDENT OF THE UNIVERSITY  
HENRY E. KALUSOWSKI, M.D., Phar.D. ... Professor of Pharmacy, Dean  
SAMUEL WAGGAMAN, M.D., Phar.D. .... Professor of Materia Medica,  
Botany and Toxicology  
GEORGE A. MERRILL, Ph.D. ....

HOWARD M. BRADBURY, Ph.D. . . . . Professor of Analytical Chemistry

BURTON J. HOWARD, B.S. .... Professor of Microscopy

HENRY B. FLOYD, Ph.D., Professor of Mercantile Pharmacy

ALEXANDER MUNCASTER, Phar.D., LL.B., LL.M..... Professor of

Alexander Muncester, Ph.D., LL.B., LL.M.....Professor of  
Pharmaceutical Jurisprudence

DOUGLAS TSCHIFFLEY, Ph.D., Assistant to the Professor of Pharmacy

LORING W. BEESON, Phar.D.,

Assistant to the Professor of General Chemistry

HOMER K. BUTLER, Phar.D.,

Assistant to the Professor of Analytical Chemistry

The National College of Pharmacy, which is the outgrowth of the Columbian Pharmaceutical Association, organized in April, 1871, was chartered under the provisions of an act of Congress in 1872, and opened its doors to students November 11 of that year. In February, 1906, it became a member of the educational system of The George Washington University, under the charter of the University granted by Congress March 3, 1905, providing for the organization of colleges. The President of the University is *ex-officio* president of the National College of Pharmacy, and the College is represented in the President's Council by its Dean.

The work of the College embraces courses in chemistry, botany, materia medica and toxicology, pharmacy and pharmaceutical laboratory work, analytical chemistry, microscopy, mercantile pharmacy, and pharmaceutical jurisprudence. Three years are required for the completion of the prescribed course.

The new College building is centrally located on I street, northwest, between Eighth and Ninth streets. It is easily reached by either of the four principal street car lines of the city.

The College requires of its Matriculants a knowledge of the branches usually taught in the public schools of Washington, D. C., to the extent of *one year in the high school or its equivalent*, and they shall be at



least seventeen years of age. Evidence of this may be shown by certificates from reputable teachers or by the results of an examination to be held at the College, at one o'clock p. m., THURSDAY, September 14, 1911.

Beginning with the session of 1912-13, candidates for admission to the college will be required to have two years high school instruction or its equivalent. Beginning with the session of 1914-15, candidates will be required to have three years high school instruction or its equivalent. Beginning with the session of 1916-17, candidates will be required to have four years high school instruction or its equivalent.

#### SPECIAL COURSES.

Students may select one or more of the branches taught and attend the lectures and laboratory work during the time set apart for such study.

Students taking single tickets are not entitled to take the examinations for the degree conferred by the College.

#### THE DEGREE.

The degree conferred is *Doctor of Pharmacy*.

#### QUALIFICATIONS FOR THE DEGREE.

1. The student shall have attended three courses of instruction in Chemistry, Pharmacy, Analytical Chemistry, Materia Medica, Botany, and Toxicology; and two in Microscopy, the last of which must have been in this College; and one course each in Mercantile Pharmacy and Pharmaceutical Jurisprudence.

2. He must have passed a satisfactory examination in each of the branches taught.

3. He must be recommended by the Board of Examiners.

#### MATERIA MEDICA, BOTANY AND TOXICOLOGY.

##### FRESHMAN COURSE.

The first lectures are introductory to the study of elementary botany, after which follow vegetable histology and plant physiology. The subject-matter of these lectures is thoroughly explained by means of charts, diagrams, and specimens.

##### JUNIOR COURSE.

This course is devoted to the consideration of the various theories concerning the vegetable world and the practical results obtained by experienced laborers in this science. The lectures are illustrated by means of the lantern and microscope. A large part of the course is devoted to a consideration of the official organic drugs.

## SENIOR COURSE.

The lectures are mainly upon the active principles, adulterants, official preparations, therapeutic uses, and doses; after which the organic and inorganic poisons are taken up under three heads: 1st, Corrosive; 2d, Irritant; and 3d, Neurotic Poisons. Under these three divisions are explained briefly their action, detection, and antidote.

## PHARMACY.

## FRESHMAN COURSE.

This course is given to the study of the various pharmaceutical processes and operations. Following in the order named are lectures on metrology, heat, thermometry, evaporation, distillation, fusion, sublimation, calcination, granulation, comminution, solution, filtration, clarification, decoloration, precipitation, crystallization, and extraction, during which the various methods used to bring about the desired results will be illustrated.

## JUNIOR COURSE.

During a part of this course the time is given to the application of the processes considered during the Freshman year to pharmacopœial preparations, and such modifications as adapt them to special uses. This includes methods for making solutions of various substances, extracts, pills, tablets, triturates, compressed tablets, capsules, powders, suppositories, plasters, ointment, cerates, and oleates.

The latter part of this course is taken up with the study of official preparations obtained from the elementary bodies beginning with bromine, chlorine, iodine, phosphorus, and sulphur, following by carbon, boron, silicon, the inorganic acids, potassium, sodium, lithium, ammonium, magnesium, calcium, barium, zinc, aluminum, cerium, cadmium, manganese, iron, chromium, lead, silver, copper, mercury, antimony, arsenic, bismuth, and gold.

## SENIOR COURSE.

The time during this course is mainly given to the study of compounds chiefly derived from organic matter, and products obtained therefrom, amylaceous and saccharine substances; glucosides and alkaloids, volatile oils and animal products commonly used in pharmacy, vegetable oils, soaps, resinoids and products from resins.

## ANALYTICAL CHEMISTRY.

The instruction in this Department is intended to present the chemical tests of the United States Pharmacopœia, with methods for the identification of substances and for the detection of impurities; to instruct



in the methods of assaying and the use of volumetric solutions, and to enable students to analyze any ordinary mixture of inorganic material.

For the purpose of carrying out the work of this Department a large, well-equipped laboratory is provided with all the usual water and gas facilities, and has recently been wired and installed with electric apparatus whereby electro-chemical methods of analysis can be taught and the application of the electric current to the preparation of chemicals by the methods of electro-chemistry can be illustrated before the students. These and other facilities afford students exceptional opportunities to become familiar with the fundamental principles of the science of chemistry.

The first year is devoted to experimental work so arranged as to supplement the lectures in General Chemistry.

The second year covers a systematic course in qualitative analysis in connection with the tests of the United States Pharmacopœia.

The third year is devoted to volumetric analysis by means of the standard solutions of the Pharmacopœia.

#### GENERAL CHEMISTRY AND PHYSICS.

Inasmuch as the subjects of Analytical Chemistry and Pharmacy are fully provided for in other courses, these lectures are devoted more closely to the fundamental principles and classification which must underlie a thorough and systematic knowledge of Chemistry. Owing to the intimate connection existing between Chemistry and several branches of Physics, a number of lectures illustrating the more important laws and principles of some of these branches precedes the regular course in Chemistry, and others on these subjects with which a prior acquaintance is less important follow after the student has acquired some knowledge of chemical changes. During the first half of the second year Physics and the non-metallic elements receive consideration, followed during the remainder of the second and a portion of the third year by the metals. The greater portion of the third year is devoted to the exposition of the more important facts, principles, and theories of Organic Chemistry.

#### MICROSCOPY.

The course of Microscopy gives instruction in the use of the compound microscope as an aid in the study and identification of drugs, and requires full attendance from Junior and Senior students.

The work includes both lectures and laboratory courses, and consists in the examination of plant tissue as illustrated in various vegetable substances most familiar to pharmacists. Special attention is given to the structural characteristics by which one drug can be distin-

guished from another as well as to the detection and identification of the most common adulterants used.

### MERCANTILE PHARMACY AND PHARMACEUTICAL JURISPRUDENCE.

These courses are required in the Senior class only.

#### FEES.

Matriculation .....	\$5
Tickets for the full year's course of instruction, Freshman.....	80
Tickets for the full year's course of instruction, Junior.....	85
Tickets for the full year's course of instruction, Senior.....	90
Single tickets for Chemistry, Materia Medica, Botany and Toxicology, each.....	20
Single tickets for Analytical Chemistry.....	25
Single tickets for Practical Pharmacy.....	25
Single tickets for Microscopy.....	20
Single tickets for Mercantile Pharmacy.....	10
Single tickets for Pharmaceutical Jurisprudence.....	10
Fee for Diploma.....	10

#### COLLEGE CALENDAR.

The thirty-eighth annual session of the College will begin on Wednesday, September 20, 1911, and close on Wednesday, June 5, 1912.



Monday.	Tuesday.	Wednesday.
<p>FRESHMEN.</p> <p>Botany. Lectures and Recitations, 10 to 11 a. m.</p> <p>Pharmacy. Lectures and Recitations, 11 a. m. to 12 m. Recess, 12 m. to 12.30 p. m.</p> <p>Pharmacy. Laboratory Work, 12.30 to 4 p. m.</p> <p>JUNIORS.</p> <p>Physics and General Chemistry. Lectures and Recitations, 6 to 7 p. m.</p> <p>Analytical Chemistry. Lectures, Recitations, and Laboratory Work, 7 to 11 p. m.</p>	<p>SENIORS.</p> <p>Microscopy. Lectures and Practice, 6 to 8 p. m.</p> <p>Mercantile Pharmacy. Oct. 6 to Jan. 26. Lectures and Practice, 8 to 10 p. m.</p> <p>Pharmaceutical Juris- prudence. Feb'y 2 to end of Term. 8 to 9 p. m.</p>	<p>JUNIORS.</p> <p>Botany and Materia Medica. Lectures and Recitations, 10 to 11 a. m.</p> <p>Pharmacy. Lectures and Recitations, 11 a. m. to 12 m. Recess, 12 m. to 12.30 p. m.</p> <p>Pharmacy. Laboratory Work, 12.30 to 4 p. m.</p> <p>FRESHMEN.</p> <p>Physics and General Chemistry. Lectures and Recitations, 6 to 7 p. m.</p> <p>Analytical Chemistry. Lectures, Recitations, and Laboratory Work, 7 to 11 p. m.</p>
Thursday.	Friday.	Saturday.
<p>SENIORS.</p> <p>General and Organic Chemistry. Lectures and Recitations, 6 to 7 p. m.</p> <p>Quantitative Chemical Analysis. Lectures, Laboratory Work, and Recitations, 7 to 11 p. m.</p>	<p>Materia Medica and Toxicology. Lectures and Recitations, 10 to 11 a. m.</p> <p>Pharmacy, Lectures and Recitations, 11 a. m. to 12 m. Recess, 12 m. to 12.30 p. m.</p> <p>Pharmacy. Laboratory Work, 12.30 to 4 p. m.</p> <p>JUNIORS.</p> <p>Microscopy. Lectures, Laboratory Work, and Recitations, 6 to 8 p. m.</p>	

Entrance examination at 1 p. m. on Thursday, September 14, 1911, in the Lecture room of the College.

Annual examination of Freshmen and Juniors for promotion and of Seniors for graduation begins on Friday, April 27, 1912.

1911—November 24, legal holiday; no College exercises. December 21, last lecture before Christmas vacation.

1912—January 3, lectures resume. February 22, convocation day. June 7, graduation day; College closes.

For further information consult the Dean, Henry E. Kalusowski, 808 I St. N. W.



## COLLEGE OF VETERINARY MEDICINE.

## BOARD OF TRUSTEES.

J. A. T. HULL	DAVID E. BUCKINGHAM, V.M.D.
H. ROZIER DULANY.	JOHN LOCKWOOD, V.S.
WILLIAM CORCORAN EUSTIS.	JOHN P. TURNER, V.M.D.

## FACULTY.

CHARLES HERBERT STOCKTON, LL.D.....	PRESIDENT OF THE UNIVERSITY
DAVID EASTBURN BUCKINGHAM, V.M.D.....	Dean, Professor of Materia Medica, Therapeutics, and Canine Practice
CHARLES EDWARD MUNROE, Ph.D.....	Professor of Chemistry
SHEPHERD IVORY FRANZ, Ph.D.....	Professor of Physiology
JOHN LOCKWOOD, D.V.S.....	Professor of Veterinary Surgery
JOHN POLLARD TURNER, V.M.D....	Professor of Theory and Practice of Veterinary Medicine
ROBERT J. FORMAD, V.M.D., M.D...	Professor of Comparative Histology and Pathology
ADOLPH EICHHORN, D.V.S.....	Professor of Contagious Diseases and Sanitary Science
FREDERICK FULLER RUSSELL, M.D., Major U. S. Army,	Director Army Medical School, Professor of Bacteriology and Pathology
THOMAS MALCOLM PRICE, M.S., Ph.D.....	Professor of Physiological Chemistry
BENJAMIN T. WOODWARD, V.M.D...	Assistant Professor of Zootechnics, Milk Hygiene, and Dairy Inspection
JOHN M. BUCK.....	Assistant Professor of Veterinary Anatomy
HULBERT YOUNG, V.M.D...	Assistant Professor of Veterinary Obstetrics and Lecturer on Horseshoeing
WILLIAM W. BRIDE, A. B., LL.B..	Lecturer on Veterinary Jurisprudence
HERBERT S. WILLIAMS, V.M.D.....	Chemical Instructor in Military Veterinary Science
JACOB TRAUM, D.V.M.....	Instructor in Histology and Embryology
JOHN SWEYN NEATE.....	Instructor in Bacteriology and Pathology
— — — — —	Instructor in Veterinary Anatomy
WILLIAM P. COLLINS, D.V.S...	Instructor in Clinical Veterinary Surgery
LOUIS B. CASTELL, Phar.D.....	Lecturer on Botany and Demonstrator in Veterinary Materia Medica and Pharmacy
E. H. INGERSOLL.....	Assistant in Physiological Chemistry
HARRY W. GRAYBILL, M. S., B.A.....	Lecturer on Veterinary Zoölogy and Parasitology

RALPH J. CARR, B.S.....Lecturer on Feeds and Feeding  
EDWARD H. RILEY, B.Agr....Lecturer on Judging Breeds and Breeding  
REID R. ASHWORTH, D.V.S.....Lecturer on Veterinary Dentistry

### REQUIREMENTS FOR ADMISSION.

Students presenting a diploma from any recognized college, normal or high school are eligible to admission without examination.

Students not having the above qualifications will be required to pass an examination in the common-school branches ordinarily required by the U. S. Civil Service, second-grade examination supplemented by history and geography of United States and its possessions.

### ADMISSION OF STUDENTS FROM OTHER SCHOOLS.

Students of other recognized and approved veterinary schools may be admitted to this school as follows:

Those qualified to enter the second year of such a school may be admitted to the second-year class of this school; those qualified to enter the third year of their own school to the third year of this school. Provided, however, that the subjects pursued by the applicants in their previous year or years are reasonably equivalent to those required in the same year or years in this school, and that the requirements for advancement from class to class are the equivalent of those in this school. Applicants may be required to submit to examination in all the subjects pursued by the previous class of this school.

### EVIDENCE OF ATTENDANCE.

At the end of the college year each student is entitled to and shall receive a written statement giving the length of time spent in each study during the session and the grade received therein. This statement, or definite evidence of credit, shall be exacted from a student before he is given advanced standing in any veterinary college. (U. S. B. A. I. Cir. 150.)

### ADVANCED STANDING.

Advanced standing will be given for degrees in Medicine, Dentistry, Veterinary Medicine, or Pharmacy.

Students holding degrees in Arts, Science, Philosophy, or Agriculture, who in the course of study for their degrees have pursued studies in chemistry, physiology, anatomy, histology, bacteriology, or pathology, equivalent to the courses in these subjects in this college, may upon satisfactory evidence of their proficiency be credited with such studies. Provided, however, that such students shall devote two years' study in veterinary medicine, the last year of which is passed in this College.



**SPECIAL STUDENTS.**

Students, approved by the Dean, not candidates for the degree of Doctor of Veterinary Medicine, may be admitted without examination to pursue any course they may elect. Such courses cannot, however, be subsequently considered as time spent in the course for the degree of Doctor of Veterinary Medicine. Nor can such students enter upon the regular veterinary course without complying with all the regular requirements for admission.

**CLASSIFICATION OF STUDENTS.**

Students are divided into three classes, according to their proficiency and the time spent, viz., first year, second year, and third year. Students cannot advance to a higher class with more than one major and one minor condition. Students failing in any subject or subjects may be permitted at the next examination period a reëxamination in the subjects in which they fail. The Faculty may dismiss any student from the College, if in its judgment such student be deemed an unsuitable person, intellectually or otherwise, for the profession of veterinary medicine.

**ORDER OF INSTRUCTION.**

The subjects studied in each year are shown in the following table:

First Year.	Second Year.	Third Year.
Anatomy.	Bacteriology.	Practice.
Histology.	Pathology.	Surgery.
General Chemistry.	Physiology.	Obstetrics.
Materia Medica.	Canine Med.	Therapeutics.
Horseshoeing.	Surgery.	Meat Hygiene.
Botany.	Practice.	Veterinary Jurisprudence.
	Clinics.	Clinics.
	Zoötechnics.	Parasitology.
	Bio-Chemistry.	Milk Hygiene.
	Pharmacy.	Zoötechnics.
	Regional Anatomy.	Zoölogy.
		Control of Infectious Diseases.

For lecture, laboratory and dissecting hours a schedule card is furnished.

Examinations are held at the end of each course. Clinical work in the veterinary and canine hospitals connected with the College and at abattoirs and stock and dairy farms is required of second and third year students.

### ANATOMY.

JOHN M. BUCK, D.V.M.....Professor of Veterinary Anatomy  
JOHN M. BUCK, D.V.M.....Instructor in Anatomy

The instruction in Anatomy is given in a series of lectures, demonstrations, recitations, and laboratory work, the latter being the most important.

The lectures are intended to present the general anatomical features of the horse and other domestic animals, and to point out the anatomical relations of the organs and parts of the body most subject to surgical operations.

The horse is used as the type subject in dissection, and every student is required to dissect all the parts of the horse, and such other of the domesticated animals, including the ox, sheep, swine, dog, and cat, as may prove most expedient.

The laboratory is well supplied with all of the parts of the skeleton of the horse, and portions of the skeleton of various other domestic animals, for the work in osteology. Ample material is always available for the dissection of joints, muscles, viscera, and the vascular and nervous systems. The laboratory is also provided with a complete model of the horse, showing the relation of all the organs and parts of the body, for demonstrations in general and surgical anatomy. The course is completed in the first year.

TEXT-BOOK: Sisson, Veterinary Anatomy.

### HISTOLOGY AND EMBRYOLOGY.

ROBERT J. FORMAD, V.M.D., M.D...Professor of Comparative Histology  
and Embryology  
JACOB TRAUM, D.V.M.....Demonstrator in Histology and Embryology

These subjects are taught by a series of carefully correlated lectures, recitations, quizzes, and demonstrations, and will include such instruction in microscopy as a working knowledge of the use of the simple and compound microscope and accessories, supplemented by the fundamental laws of optics; the method of preparing tissues for microscopic examination, and the technique of mounting.

Comparative histology will deal with the minute structure of the tissues and organs of various animals, including man. In addition to the microscopical demonstrations, lantern demonstrations will also be given.



Embryology under this head will present the salient features of the anatomy and physiology of the fecundated ovule up to the time of birth.

TEXT-BOOK: Histology, Böhm, Davidoff & Huber.

### PHYSIOLOGY.

SHEPHERD IVORY FRANZ.....Professor of Physiology

The course in Physiology consists of lectures, demonstrations, and laboratory exercises. The lectures cover all the important facts and theories regarding bodily functions of the animal, and are illustrated by digrams, models, and prepared specimens.

In the laboratory each student performs a number of experiments on blood, on the circulation, on digestion, on the general functions of nerves and muscles, and on the special senses of animals.

Special emphasis is laid on the relation of normal physiological functions to the disturbances of function in disease and upon the physiological action of drugs.

It is intended in this way to bring the work of the Physiological Laboratory and other exercises into closer relation with the succeeding course in Pathology, Therapeutics, and General Veterinary Medicine.

TEXT-BOOKS: Howell's Physiology, Smith's Veterinary Physiology.

### CHEMISTRY.

(First Year.)

General Chemistry.—A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical Chemistry. The student is required to take notes on these lectures, which he must submit for examination. *Tuesdays, Thursdays, and Saturdays*, at 4.50. Professor MUNROE and Mr. SWETT.

Laboratory Practice.—A laboratory course for the study of the principles of chemistry which is designed to instruct students in the methods of conducting chemical experiments. Professor MUNROE and Professor PRICE.

TEXT-BOOKS: Holland's Medical Chemistry and Toxicology.

### PHYSIOLOGICAL CHEMISTRY.

(Second Year.)

T. M. PRICE, M.S., Ph.D.....Professor of Physiological Chemistry

E. H. INGERSOLL.....Assistant

This course will consist of lectures and laboratory instruction, and includes the study of water from a sanitary standpoint; the chemical

examination of milk, the tissues and fluids of the body; the isolation of the digestive enzymes, and a study of their action in vitro.

### MATERIA MEDICA AND THERAPEUTICS.

DAVID E. BUCKINGHAM, V.M.D.....Professor of Veterinary  
Materia Medica and Therapeutics  
.....Demonstrator in Veterinary Materia Medica and Pharmacy  
LOUIS B. CASTELL, Phar.D.....Lecturer in Botany

First year. (1) Lectures upon and demonstrations of drugs and their preparations and doses used in veterinary practice will be followed by recitations to assist in memorizing. (2) Practical exercises will be given in prescription writing, also a short course in Veterinary Pharmacology.

Third year. (1) Systematic lectures upon the physiological action of drugs and their effects in disease, their therapeutic uses, and their methods of administration to animals. (2) Prescription writing, in which students are given hypothetical cases for which to prescribe. (3) The therapeutic application of various agencies not drugs.

TEXT-BOOK: Winslow's Veterinary Materia Medica and Therapeutics.

### PRACTICE OF VETERINARY MEDICINE.

JOHN P. TURNER, V.M.D.....Professor of Veterinary Medicine

This subject is taught by a series of lectures, recitations, quizzes, and clinics extending over a period of two years.

The student is personally drilled in all the various diseases and doctrines taught in a well regulated veterinary school.

Especial attention is given to practical work whereby the student can become proficient in the diagnosis and treatment of disease.

Visits are required to the three veterinary hospitals in connection with the University, and personal attention is given students in visits to various large stables in and adjacent to the city of Washington, where practical instruction is given the second and third year classes in physical diagnosis among horses, cows, and hogs.

Equal attention is given diseases of cattle as of horses, whereby the student is properly fitted for either city or country practice.

Diseases of food-producing animals will be thoroughly explained.

TEXT-BOOKS: Friedberger and Froehner's Pathology and Therapeutics of Domestic Animals; Robertson's Practice of Equine Medicine; Williams' Principles and Practice of Veterinary Medicine; Fleming's Manual of Veterinary Sanitary Science and Police; Glass' translation of Müller's Diseases of the Dog.



**VETERINARY SURGERY.**

JOHN LOCKWOOD, V.S.....Professor of Veterinary Surgery  
WM. P. COLLINS, D.V.S.,

Instructor in Clinical Veterinary Surgery and Restraint

The instruction given in this course embraces systematic lectures upon the principles and practice of Veterinary Surgery.

The different surgical operations are illustrated in clinic and upon the cadaver and the uses of all the important surgical instruments and appliances are demonstrated in the same manner. The use of anæsthetics, the practice of dental surgery and castration on all domestic animals will receive special attention.

TEXT-BOOKS: Moeller's Operative Veterinary Surgery; Fleming's Operative Veterinary Surgery; Hobday's Canine and Feline Surgery; Williams' Principles and Practice of Veterinary Surgery; Pfeiffer and Williams' Surgical Operations; White's Restraint of Domestic Animals.

**BACTERIOLOGY AND PATHOLOGY.**

FREDERICK FULLER RUSSELL, M.D.....Professor of Bacteriology and  
Pathology

(Curator Army Medical Museum.)

JOHN SWEYN NEATE, M.D....Instructor in Bacteriology and Pathology

**Bacteriology.**—This subject comprises laboratory instruction in the fundamental principles and methods of pure bacteriology. Thorough drilling is given in the preparation of culture media, in disinfection, sterilization, staining, and the general methods of bacterial differentiation. Following this course, which is given daily during October, the further study of bacteria is taken up in connection with and as applied to pathology.

**Pathology** comprises the laboratory study of the general and special phenomena of inflammation, and a detailed study of the pathological processes found in the various diseases. The relation of bacterial and other microphytic life to disease processes and results is studied coincidentally and constitutes a course in applied bacteriology. In connection with the laboratory work a course of lectures and demonstrations is given upon immunity, serum therapy, and protective inoculation.

**Surgical Pathology.**—A special course in the healing of wounds and injuries and in the pathology of surgical operations is given in the third year.

**Clinical Microscopy**, comprising the study of the various tissues, fluids, ejecta, and dejecta, with a view to diagnosis of diseased conditions, is given in the first part of the third year.

TEXT-BOOKS: Delafield and Prudean's Pathology, Hiss & Zinsser's Text-book on Bacteriology.

**CONTAGIOUS DISEASES AND SANITARY SCIENCE.**

ADOLPH EICHHORN, D. V. S.,

Professor of Contagious Diseases and Sanitary Science  
Assistant Professor of Sanitary Science and National Quarantine

The lectures in this course will be given with reference to the etiology, pathogenesis, symptoms, diagnosis, treatment, and prevention of the contagious diseases. Local and national regulations and measures governing the control and eradication of diseases will be clearly explained, with particular reference to the work of the United States Government in the eradication of contagious diseases.

**MEAT HYGIENE.**

ADOLPH EICHHORN, D.V.S.,.....Professor of Meat Hygiene

The subject involves the control of food animals destined for slaughter; their ante-mortem and post-mortem inspection with reference to the diseases which affect the wholesomeness of the meat. Further, the preparation of meat-food products, the various forms of preservation of meat and the conditions to which the meat and meat products are subject from the different infections and contaminations. The application of the Regulations of the Department of Agriculture in connection with the judgment of carcasses, meats, and meat-food products.

Practical demonstrations in meat inspection and judgment will be given at the local abattoirs.

TEXT-BOOK: Mohler and Eichhorn's translation of Edelman's Meat Hygiene.

TEXT-BOOKS: Moore's The Pathology of Infectious Diseases of Animals; Friedberger and Froehner's Pathology and Therapeutics of Domestic Animals; Meat Inspection; Edelman's; Mohler and Eichhorn translation.

**ZOÖTECHNICS AND MILK HYGIENE.**

B. T. WOODWARD, V.M.D.,

Assistant Professor of Milk Hygiene and Zoötechnics

E. H. RILEY, B.Agr.,.....Lecturer on Judging Animals

RALPH J. CARR, B.S.,.....Lecturer on Feeds and Feeding

The course covers the chief phases of live-stock work, including the judging, breeding, feeding, and management of horses, cattle, sheep, and swine.

It is introduced by discussions upon the origin of animal life, natural selections, the origin of breeds, and the domestication of animals.

The principles of breeding, heredity, environment, selection, indi-



vidual conformation, the history and development of breeds, principles of animal nutrition, balanced rations, practical feeding, and the economic production of beef, milk, mutton, and pork are given consideration.

Students obtain practical experience in the judging of the various breeds and classes of animals by visits to neighboring farms.

The course in Milk Hygiene will be given by lectures and demonstrations throughout the third year. The students will be taught the theory of milk secretion, the composition and characteristics of milk, the various methods of testing, together with the chemistry and bacteriology of milk, abnormal forms of milk, and diseases transmissible through milk to bovines and humans, with a study of the epidemics produced. Sanitary stabling and the sanitary handling of milk will be considered, showing the construction of various types of dairy barns and dairy houses, the manner of milking, care of the milk, and the varieties and care of dairy utensils; also a study of sterilization and pasteurization.

TEXT-BOOKS: Plumb's Types and Breeds of Farm Animals; Pearson's translation of Jensen's Essentials of Milk Hygiene; Henry's Feeds and Feeding.

### VETERINARY ZOÖLOGY AND PARASITOLOGY.

HARRY W. GRAYBILL, M.S., B.A., D.V.M.,

Lecturer on Veterinary Zoölogy and Parasitology

This course will embrace Zoölogy and the various parasites with which the various domestic animals are infested. Instruction as to prevention, eradication, and the treatment of the diseases caused by them will be given.

TEXT-BOOK: Neuman, Animal Parasites.

### VETERINARY OBSTETRICS.

HULBERT YOUNG, V.M.D...Assistant Professor of Veterinary Obstetrics

The course of instruction will consist of lectures on obstetrical anatomy, fetal development, presentations, and the diseases incidental to the periods of gestation and parturition.

The lectures will be illustrated by diagrams, models, natural preparations, and other appliances for demonstrating the principles taught.

TEXT-BOOK: Fleming, Dalrymple.

### HORSESHOEING.

HULBERT YOUNG, V.M.D.....Lecturer on Horseshoeing

The course is intended to familiarize students with the principles of shoeing, the examination of the feet and proper use of special shoes for relief of defects or disease.

TEXT-BOOK: Lungwitz on Horseshoeing, Adams' translation.

### MILITARY PRACTICE.

HERBERT S. WILLIAMS, V.M.D.,

Clinical Instructor in Veterinary Military Practice  
(U. S. Army, Fort Myer, Va.)

This course consists of lectures and demonstrations of purely military veterinary subjects, and is given at Fort Myer, Va., the cavalry and artillery post near Washington, D. C.

The subjects of saddling, biting, and draft, together with the study of the proper conformation of animals used for military purposes, are included in this set of lectures.

The control of contagious diseases in army animals is also given special consideration.

### VETERINARY JURISPRUDENCE.

WILLIAM W. BRIDE, A.B., LL.B., Lecturer on Veterinary Jurisprudence

A series of lectures upon the Law of Animals, including suggestions relating to the conduct of veterinarians as experts in the trial of cases involving the above law.

In addition to the foregoing courses of lectures, a number of Government experts have been engaged to give lectures on subjects of special interest to the veterinarian.

### EXAMINATIONS AND DEGREE.

Examinations are held at the end of the course in each subject. Students failing in examinations will be permitted to be reexamined at the next regular examination period. Students will not be admitted to examination unless they have paid all fees due at the time or present a permit signed by the Dean. In order to avail themselves of the privilege of reexamination, students must file their written applications with the Dean not later than fifteen days before the date set for the examinations.

Proficiency is marked upon a scale of 100. A grade of 65 is required to pass an examination.

If a satisfactory examination is passed, the student receives the Degree of Doctor of Veterinary Medicine (D.V.M.).

### THE VETERINARY LIBRARY.

This library is located in the Administration Building of the College of Veterinary Medicine, and is open from 8 a. m. to 10 p. m.

It contains, in addition to volumes on veterinary medical subjects, the current veterinary journals.

Provision is made in the annual library fee charged every student to add to it as published the important new works on veterinary medicine.



## OTHER LIBRARIES.

Washington contains the Library of the Surgeon General's Office of the United States Army, the most complete medical library in the world. This library, as all other libraries of the Government, is open to the public between the hours of 9 a. m. and 4.30 p. m. There is also the Library of Congress and the many excellent libraries of the various other Government offices, in addition to the University Medical Library.

## FEES AND CONTINGENT EXPENSES.

1. Matriculation fee (payable only on first entry into the University).....	\$5
2. Library fee per annum.....	3
3. Tuition fee per annum.....	100
4. Fee for graduation.....	10

A deposit of \$5 per annum is required of every student to cover loss, breakage, or damage to the property of the school. The amount of such deposit paid in excess of the breakage will be returned.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter-session, when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Secretary, and will be received only at the end of a quarter-session.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$5
Microscope for Bacteriological, Pathological, and Clinical Microscopy Laboratory use.....	6

## PAYMENT OF FEES.

All fees are to be paid to the clerk. Tuition fees are payable quarterly, in advance. Matriculation, library, and laboratory fees are payable in full, in advance.

For further information apply to

DAVID E. BUCKINGHAM, *Dean,*  
*The George Washington University,*  
*College of Veterinary Medicine,*  
*Washington, D. C.*

Nos. 2113-2115 Fourteenth St., N. W.

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PART IV.  
STUDENTS IN THE UNIVERSITY.

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DEGREES CONFERRED, MISCELLANEA.

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# Students Registered in the University, 1910-1911.

## DEPARTMENT OF ARTS AND SCIENCES.

### GRADUATE STUDIES.

#### In Attendance.

Name.	Legal residence.	City address.
Danner, Charles Eugene, Jr. ....	N. C. ....	1804 G Street.
<i>Topic—Chemistry.</i>		
Fuller, Aubrey Vail. ....	D. C. ....	2318 1st Street.
B.S., 1910, The George Washington University.		
<i>Topics—Bacteriology and Chemistry.</i>		
Grunwell, Paul Clifton. ....	D. C. ....	1805 Belmont Road.
B.M.E., 1907, The University of Kentucky.		
<i>Topic—Chemistry.</i>		
Johnson, Edward Carl. ....	Minn. ....	1815 Belmont Road.
A.M., 1907, University of Minnesota.		
<i>Topic—Bacteriology.</i>		
Potter, Alden Archibald. ....	Minn. ....	1815 Belmont Road.
B.S., 1909, University of Minnesota.		
<i>Topic—Bacteriology.</i>		
Shrader, James Houston. ....	Md. ....	309 D Street.
A.B., 1909, The George Washington University.		
<i>Topic—Chemistry.</i>		
Starbecker, Moses. ....	N. Y. ....	1104 5th Street.
B.S., 1910, College of the City of New York.		
<i>Topic—Chemistry.</i>		
Struble, George Wallace. ....	Ore. ....	The Benedick.
Graduate, 1908, United States Naval Academy.		
<i>Topic—Chemistry.</i>		

#### Doctor of Civil Law.

Oberlin, Paca. ....	Va. ....	416 5th Street.
LL.B., 1903, LL.M., 1904, Columbian University.		

#### Civil Engineer.

Lawrence, Glenn Rupert. ....	D. C. ....	238 Wilbur Ave., Columbus, Ohio.
B.S. in C.E., 1910, The George Washington University.		
Saum, Irving Randolph. ....	D. C. ....	207 Florence Court.
B.S. in C.E., 1910, The George Washington University.		



## Electrical Engineer.

Name.	Legal residence.	City address.
Conwell, Rollin Nichol.....	Ind.....	1302 Columbia Road.

## Master of Sciences.

Castleman, Philip.....Mass.....1121 6th Street.  
 B.S., 1906, Harvard University.  
*Topics*—Major, Chemistry; Minors, Preventive Medicine, Neurology.

Mackall, Colin Mackenzie.....Va.....915 16th Street.  
 A.B., 1909, B.S. in Chem., 1910, University of Virginia.  
*Topics*—Major, Chemistry; Minors, Bacteriology, Geology.

Macmillan, Julia Theckla.....D. C.....600 Maryland Ave., N. E.  
 B.S., 1907, The George Washington University.  
*Topics*—Major, Zoölogy; Minors, English, Zoölogy.

Mansfield, Wendell Clay.....N. Y.....1209 O Street.  
 B.S., 1908, Syracuse University.  
*Topics*—Major, Paleontology; Minors, Zoölogy, Mineralogy.

Marsh, Allen Johnson.....D. C.....628 E Street, N. E.  
 B.S., 1910, The George Washington University.  
*Topics*—Major, Chemistry; Minors, Bacteriology, Geology.

Radcliffe, Lewis.....N. Y.....633 A Street, N. E.  
 A.B., 1905, Cornell University.  
*Topics*—Major, Zoölogy; Minors, Zoölogy, Bacteriology.

Valaer, Peter, Jr.....N. C.....421 P Street.  
 B.S., 1906, North Carolina Agricultural and Mechanical College.  
*Topics*—Major, Chemistry; Minors, Bacteriology, Microscopy.

## Master of Arts.

Baker, Mary Gertrude.....Ga.....1337 L Street.  
 B.S., 1909, Ohio Northern University.  
*Topics*—Major, History; Minors, Philosophy, English.

Barnes, Charles Maurice.....Va.....Census Bureau.  
 A.B., 1910, The George Washington University.  
*Topics*—Major, Economics; Minors, Sociology, History.

Bowker, Charles Harvey.....N. H.....1310 Vermont Ave.  
 M.D., 1892, Hahnemann Medical College.  
 M.D., 1900, National University.  
 A.B., 1909, The George Washington University.  
*Topics*—Major, Bacteriology; Minors, Pathology, Zoölogy.

Bradshaw, May Paul.....D. C.....901 C Street, N. E.  
 A.B., 1909, The George Washington University.  
*Topics*—Major, History; Minors, English, Economics.

Given, Mary Ella.....D. C.....1429 Clifton Street.  
 A.B., 1910, The George Washington University.  
*Topics*—Major, English; Minors, Philosophy, Education.

## STUDENTS IN THE UNIVERSITY.

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Name.	Legal residence.	City address.
Hatton, Stewart P.....	W. Va.....	The Ardmore.
A.B., 1890, Ped. B., 1891, University of Missouri.		
A.M., 1893, McGee College.		
LL.D., 1904, La Mars College.		
Topics—Major, Education; Minors, Philosophy, Psychology.		
Lowe, Henry Francis.....	D. C.....	215 5th Street, N. E.
L.I., 1890, College of William and Mary.		
B.S., 1903, The George Washington University.		
Topics—Major, Psychology; Minors, Education, Political Science.		
Magnusson, Leifur.....	Minn.....	118 3d Street, N. E.
A.B., 1905, University of Minnesota.		
Topics—Major, Economics; Minors, Political Science, History.		
Mayo, William Lee.....	Md.....	2017 G Street.
B.S., 1899, St. John's College.		
Topics—Major, English; Minors, Economics, Sociology.		
Plass, Joseph.....	Germany...	225 H Street.
A.B., 1910, The George Washington University.		
Topics—Major, History; Minors, Archaeology, English.		
Pollock, William McCally.....	W. Va.....	The Balfour.
A.B., 1898, University of West Virginia.		
Topics—Major, Chemistry; Minors, Chemistry, Bacteriology.		
Rankin, John Owen.....	Mo.....	610 22d Street.
A.B., 1904, Tarkio College.		
Topics—Major, Economics; Minors, Political Science, International Law and Diplomacy.		
Schwartz, Claus Johann.....	Germany...	3526 11th Street.
A.B., 1908, The George Washington University.		
Topics—Major, German; Minors, French, Education.		
Scott, Mabel Lavinia.....	D. C.....	1455 Girard Street.
A.B., 1907, The George Washington University.		
Topics—Major, German; Minors, English, History.		
Wolfe, Bertha Frances.....	Ind.....	521 10th Street.
A.B., 1884, Southern Indiana Normal College.		
Topics—Major, English; Minors, English, Philosophy.		

## Doctor of Philosophy.

*Alden, Levi Russell.....	D. C.....	809 L Street.
A.B., 1903, A.M., 1904, Columbian University.		
Topics—Major, History; Minors, Law, History.		
Churchill, George Morton.....	Mass.....	520 E Street, N. E.
A.B., 1896, Boston University.		
A.M., 1909, The George Washington University.		
Topics—Major, History; Minors, Economics, History.		
Coffey, George Nelson.....	N. C.....	Bureau of Soils.
Ph.B., 1900, University of North Carolina.		
M.S., 1908, The George Washington University.		
Topics—Major, Geology; Minors, Mineralogy, Meteorology.		

\*Thesis requirement not completed.



- | Name   | Legal residence | City address              |
|--|-----------------|---------------------------|
| Custis, Horace Hatch.....  | D. C.....       | The Iroquois.             |
| A.B., 1906, Johns Hopkins University.  |                 |                           |
| A.M., 1908, The George Washington University.                                  |                 |                           |
| <i>Topics</i> —Major, Chemistry; Minors, Geology, Bacteriology.                |                 |                           |
| Gordon, Hayner Haskell.....  | Ohio.....       | 1310 Girard Street.       |
| B.S. in E.E., 1908, E.E., 1909, The George Washington University.              |                 |                           |
| <i>Topics</i> —Major, Physics; Minors, Mathematics, Engineering.               |                 |                           |
| Huddle, John Thomas.....   | D. C.....       | 738 11th Street.          |
| A.B., 1891, A.M., 1896, Roanoke College.                                       |                 |                           |
| <i>Topics</i> —Major, Psychology; Minors, Philosophy, English.                 |                 |                           |
| Jenkins, Minnie.....   | N. Y.,.....     | Dept. of Agriculture.     |
| B.S.A., 1907, M.S.A., 1909, Cornell University.                                |                 |                           |
| <i>Topics</i> —Major, Bacteriology; Minor, Chemistry.                          |                 |                           |
| Kent, Grace Helen.....   | Vt.....         | Gov. Hospital for Insane. |
| B.A., 1902, M.A., 1904, University of Iowa.                                    |                 |                           |
| <i>Topics</i> —Major, Psychology; Minors, Psychology, Philosophy.              |                 |                           |
| McBryde, Charles Neil.....   | Va.....         | The Iroquois.             |
| B.S., 1891, University of South Carolina.                                      |                 |                           |
| M.S., 1893, The Virginia Polytechnic Institute.                                |                 |                           |
| M.D., 1897, The Johns Hopkins University.                                      |                 |                           |
| <i>Topics</i> —Major, Preventive Medicine; Minors, Botany, Geology.            |                 |                           |
| McCaughey, William John.....   | Pa.....         | 1503 N. Capitol Street.   |
| B.S., 1906, University of Pennsylvania.  |                 |                           |
| <i>Topics</i> —Major, Mineralogy; Minors, Geology, Chemistry.                  |                 |                           |
| *Marshall, Elmer Eugene.....   | D. C.,.....     | 1372 Newton Street.       |
| A.B., 1889, Ohio Wesleyan University.  |                 |                           |
| S.T.B., 1904, Boston University.   |                 |                           |
| <i>Topics</i> —Major, History; Minors, Philosophy, Biblical Literature.        |                 |                           |
| Paine, Howard Shepard.....   | Ohio.....       | 1438 Meridian Place.      |
| A.B., 1902, Ohio University.   |                 |                           |
| <i>Topics</i> —Major, Chemistry; Minors, Chemistry, Physics.                   |                 |                           |
| Ross, George Albert.....   | Mo.....         | 2518 13th Street.         |
| A.B., 1893, William Jewell College.  |                 |                           |
| A.M., 1898, Columbian University.  |                 |                           |
| <i>Topics</i> —Major, Mathematics; Minors, Education, Applied Mathematics.     |                 |                           |
| Schoenfeld, Hans Fr. Arthur.....   | D. C.....       | Caracas, Venezuela.       |
| A.B., 1907, A.M., 1909, The George Washington University.                      |                 |                           |
| <i>Topics</i> —Major, History; Minors, History, International Law.             |                 |                           |
| Schwartz, Claus Johann.....  | Germany.....    | 3526 11th Street.         |
| A.B., 1908, The George Washington University.                                  |                 |                           |
| <i>Topics</i> —Major, German; Minors, French, Education.                       |                 |                           |
| *Solvom, Herbert Louis.....  | Md.....         | Buenos Ayres, Argentina.  |
| B.S., 1902, M.S., 1903, Columbian University.                                  |                 |                           |
| <i>Topics</i> —Major, Astro Physics; Minors, Meteorology, Practical Chemistry. |                 |                           |
| Swett, Otis Dow.....   | Md.....         | Chevy Chase, Md.          |
| LL.B., 1891, LL.M., 1892, A.B., 1904, Columbian University.                    |                 |                           |
| M.S., 1909, The George Washington University.                                  |                 |                           |
| <i>Topics</i> —Major, Chemistry; Minors, Chemistry, Bacteriology.              |                 |                           |

\* Thesis requirement not completed.

Name.	Legal residence.	City address.
Symons, Thomas Baddeby.....	Md.....	College Park, Md.
B.S., 1902, M.S., 1904, Maryland Agricultural College.		
Topics—Major, Zoölogy; Minors, Botany, Zoölogy.		
Wiley, Edwin.....	Va.....	Library of Congress.
B.S., 1891, A.B., 1898, A.M., 1898, University of Tennessee.		
Topics—Major, English; Minors, English, History.		
*Young, Mrs. Julia Elektra Ludlow.....	N.Y.....	Nat'l Cathedral School.
A.B., 1906, Columbia University.		
M.A., 1909, The George Washington University.		
Topics—Major, Greek; Minors, Latin, Archaeology.		
*Zerhusen, Francis Xavier.....	Ky.....	Holy Cross College.
A.B., 1906, Notre Dame University.		
Topics—Major, German; Minors, German, History.		
Brookland, D. C.		

## UNDERGRADUATE COLLEGES.

The following list includes all undergraduate students. The registration is indicated by the abbreviations: A.&S., for College of Arts and Sciences; Eng., for College of Engineering and Mechanic Arts; C.P.S., for College of the Political Sciences; T.C., for Teachers College. The letters c., e., m., and a., after the abbreviation Eng., indicate that the student is a candidate for the bachelor's degree in Civil, Electrical, or Mechanical Engineering, or in Architecture; the absence of these letters indicates a special student.

Name.	Legal residence.	City address.
Adams, Ray R., A.&S.....	Va.....	Barcroft, Va.
Addison, John W., C.P.S.....	Va.....	Bureau of Corporations.
Allen, Harold Felton, Eng.m.....	D. C.....	1012 B Street, S. E.
Altizer, Posey John, A.&S.....	Ky.....	941 H Street.
I.L.B., 1908, The George Washington University.		
Altman, Harry Loyd, A.&S.....	Minn.....	Weather Bureau.
Altman, Stanley B., Eng.c.....	S. C.....	1804 G Street.
Alvord, Katharine, A.&S.....	D. C.....	The Ontario.
Alvord, Margaret, A.&S.....	D. C.....	The Ontario.
Amateis, Roland Paul, Eng.c.....	D. C.....	1124 Connecticut Ave.
Anderson, Hans Wilhelm		
Ferdinand, A.&S.....		
Germany....		
1829 19th Street.		
Aretander, Edele K., A.&S.....	Norway....	1448 Rhode Island Ave.
Argo, Reamer Wilkes, Eng.c.....	Md.....	Y. M. C. A.
Armes, Jessie, A.&S.....	D. C.....	1607 Irving Street.
Arnold, John Knox, C.P.S.....	Ky.....	1223 Harvard Street.
Arnold, Virginia Josephine, T.C.....	D. C.....	2232 Decatur Place.
Avers, Henry Godfrey, A.&S....	Ohio.....	84th Street, S. E.
Babcock, Henry H. Y., A.&S....	R. I.....	1320 Vermont Ave.
Baker, Henry Alban, A.&S.....	W. Va.....	1108 16th Street.

\* Thesis requirement not completed.



Name.	Legal residence.	City address.
Ball, Wm. Curtis Cooley, Eng.c.	Md.	824 6th Street, S. W.
Barb, Thomas V., C.P.S.	D. C.	1329 Penna. Avenue.
Barber, Charles Wightman, Eng.c.	D. C.	412 South Capitol Street.
Barndollar, Nannie Cramer, T.C.	D. C.	1352 Oak Street.
Barrett, Stanton E., C.P.S.	Wash.	814 I Street.
A.B., 1895, University of Rochester.		
Bashford, Margaret Josepha, T.C.	Va.	R. F. D., No. 2, Alexandria, Va.
Baston, George Henry, A.&S.	Me.	Bureau of Chemistry.
Batt, Joseph Harper, A.&S.	Del.	The Lenox.
Bayly, Howard Paul, Eng.c.	Me.	1333 11th Street.
Beale, Hilda, A.&S.	D. C.	2611 Adams Mill Road.
Beaman, Nelson Barry, C.P.S.	Mich.	1443 Mass. Ave.
Beauchamp, Edward Lassell, A.&S.	D. C.	1111 M Street.
Behrmann, Carl, A.&S.	Ill.	Y. M. C. A.
Beller, Lizzie Caroline, T.C.	D. C.	235 1st Street, N. E.
Bengston, Ida A., A.&S.	Nebr.	1931 17th Street.
Benners, J. N., C.P.S.	Ala.	1019 P Street.
Benton, Culmer C., A.&S.	Ind.	1826 G Street.
Benton, Ralph Webster, A.&S.	D. C.	462 O Street.
Berry, Louise, T.C.	Md.	1919 K Street.
Bevard, Katharine Harper, T.C.	D. C.	1423 R Street.
Bingham, Miles Franklin, A.&S.	Ohio.	Chevy Chase, Md.
Bizzell, James Eustace, A.&S.	D. C.	The Burlington.
Black, James Earl, A.&S.	N. Y.	1225 O Street.
Blandford, Hannah McLean, T.C.	D. C.	220 8th Street, S. W.
Boesch, Paul Raymond, Eng.m.	Ill.	616 E Street, N. E.
Bontz, Mary Ellen, T.C.	Va.	422 N. Alfred Street, Alexandria, Va.
Bortman, Isaac M., A.&S.	Pa.	932 New York Avenue.
Bouson, Louise Elizabeth, T.C.	S. C.	567 4th Street.
Boutell, Hugh Gates, Eng.m.	Ill.	The Highlands.
Bowen, Norris Loring, C.P.S.	Va.	Clarendon, Va.
Bowen, Seth Thomas, Eng.c.	Ohio.	1736 G Street.
Bradley, Paul Earl, C.P.S.	Ill.	Y. M. C. A.
Brady, Johnson Camden, Eng.	W. Va.	2435 18th Street.
Brakhagen, Minnie Hulda, A.&S.	D. C.	905 7th Street.
Brame, Arthur Hervey, Eng.e.	D. C.	1317 10th Street.
Brandes, Walter William, A.&S.	D. C.	1527 12th Street.
Brandt, Milton W., A.&S.	Ohio.	1348 T Street.
Breneman, Claude Royal, A.&S.	Pa.	807 H Street.
Brennan, Rudolph Wills, C.P.S.	D. C.	1327 21st Street.
Breuninger, Henry L., Eng.m.	D. C.	18th and Park Road.
Broach, Emma, T.C.	Ga.	110 East Capitol Street.

Name.	Legal residence.	City address.
Brock, Thomas S., Eng.....	D. C.....	1430 W Street.
Brockwell, John, A.&S.....	D. C.....	1259 Morse Street, N. E.
Brooks, Charles W., Eng.....	N. Y.....	1321 N Street.
Ph.B., 1901, Brown University.		
Brown, Ammi, C.P.S.....	Colo.....	216 New Jersey Avenue.
A.M., 1902, Harvard University.		
Brown, Alvin McC., A.&S.....	D. C.....	Kenilworth, D. C.
Brown, Lee Hoxie, Eng.e.....	D. C.....	2464 Ontario Road.
Brown, Mary, T.C.....	D. C.....	2464 Ontario Road.
Brylawski, Hortense, A.&S.....	D. C.....	1912 Calvert Street.
Buchanan, M. Beverly, A.&S.....	D. C.....	3323 18th Street.
Buchanan, Omar Bailey, Eng.e.....	D. C.....	502 M Street.
Buck, Arthur Pierce, Eng.e.....	Ohio.....	1453 S. C. Ave., S. E.
Bullough, George Van Ness, A.&S.D. C.....		122 Tenn. Ave., N. E.
Bundick, Clarence Albert, Eng.e.....	D. C.....	716 12th Street, N. E.
Burchard, Edwin Day, Eng.e.....	D. C.....	1113 S Street.
Burden, Katherine, A.&S.....	D. C.....	The Franklin.
Burke, Ellen Teresa, A.&S.....	D. C.....	Brightwood Park, D. C.
Burnett, Lyle Black, A.&S.....	Mo.....	2224 F Street.
Burrell, William Webster, Eng.m. D. C.....		2129 Penna. Avenue.
Burrows, Termaine K., C.P.S....	N. Y.....	2323 Ontario Road.
Byrne, George Aloysius, A.&S....	D. C.....	105 Maryland Ave., N. E.
Cade, W. Roscoe, A.&S.....	D. C.....	1303 Wallach Place.
Callaghan, Margaret Gertrude, T.C.Md.....		3901 Grant Road.
Callister, Edward Richard, A.&S. Utah.....		215 Senate Office Bldg.
Cameron, Myrle, A.&S.....	D. C.....	16th and Emerson Sts.
Campbell, Orland, A.&S.....	D. C.....	1343 Harvard Street.
Campbell, William D., C.P.S....	Tenn.....	1830 G Street.
Carpenter, Lillian Evans, T.C....	D. C.....	205 D Street, N. E.
Carter, Francis Edward, A.&S....	Va.....	Episcopal High School.
Carty, Roy Franklin, Eng.m.....	D. C.....	Bureau of Standards.
Cash, Edith Katherine, A.&S....	D. C.....	126 Tenn. Ave., N. E.
Chace, Eunice Lucretia, T.C....	Md.....	Berwyn, Md.
Chang, Tien Yuen, C.P.S.....	China.....	Chinese Legation.
M.A., College of Languages, China.		
Chapin, Mabel Louise, A.&S.....	D. C.....	519 Stanton Place, N. E.
Chapman, Thomas Hutchinson,		
A.&S.....		
	D. C.....	129 F Street.
Chase, Harry Guy, Eng.e.....	D. C.....	320 Maryland Ave., N. E.
Cheney, Edith, A.&S.....	D. C.....	816 Taylor Street.
Chien, Shii Fan, C.P.S.....	China.....	Chinese Legation.
Chowning, James William, Eng..	Mo.....	938 Rhode Island Ave.
Chubb, Herman Blaney, C.P.S....	D. C.....	The Lenox.
Church, Grace Ella, A.&S.....	D. C.....	626 North Carolina Ave.



Name.	Legal residence.	City address.
Claffin, Roy Cleon, Eng.c.....	Ill.....	3223 Warder Street.
Claiborne, Hamilton Cabell, C.P.S. Va.....		1922 I Street.
Claveloux, Frank, A.&S.....	D. C.....	2000 N. Capitol Street.
Cochrane, John Edw. Walker, Eng.c.....	D. C.....	1416 K Street.
Cockrell, Selwyn Kennedy, A.&S. D. C.....		1050 W. Fayette Street, Baltimore, Md.
Coe, Mayne R., A.&S.....	N. C.....	Langdon, D. C.
Cohen, William I., Eng.....	Minn.....	617 K Street.
Collins, Georgie A., A.&S.....	N. Y.....	2719 11th Street.
Collins, Karrick Pelouze, C.P.S. Colo.....		The Grafton.
Collins, William Moore, A.&S....	D. C.....	1417 G Street, N. E.
Connelly, Mary Ann, T.C.....	D. C.....	1438 S Street.
Connor, Daniel Allman, Eng.c....	D. C.....	130 D Street, S. E.
Conwell, Rollin Nichol, Eng.e....	Ind.....	1302 Columbia Road.
Copeland, Leland Stanford, A.&S. Mo.....		1227 Harvard Street.
Corby, Karl W., A.&S.....	D. C.....	1430 Fairmont Street.
Coulon, Eugene E., C.P.S.....	La.....	The Domariscotta.
Coulson, Margaret Holmes, T.C. Ala.....		Dumbarton Court.
Coumbe, Edward Celestine, A.&S. Wash.....		1433 Rhode Island Ave.
Craig, Harold Kennedy, Eng.c....	D. C.....	2206 1st Street.
Craighill, Susan Robins, T.C.....	D. C.....	3062 Q Street.
Crason, Elly Brown, A.&S.....	Va.....	619 14th Street.
Creswell, C. F., A.&S.....	Pa.....	2016 G Street.
Crosby, Willard McNeil, A.&S....	N. Y.....	1103 6th Street.
Crowe, John Joseph, A.&S.....	D. C.....	Bureau of Standards.
Crown, James Edmund, Eng.m....	D. C.....	221 10th Street, S. E.
Cullom, Edward, A.&S.....	Tenn.....	2023 I Street.
A.B., 1904, University of Nashville.		
A.M., 1910, The George Washington University.		
Dans, José P., Eng.....	P. I.....	Coast and Geodetic Sur.
Darcey, James Francis, Eng.....	D. C.....	2140 I Street.
Davis, Fred Philip, A.&S.....	N. H.....	119 T Street.
Davis, Warren Jefferson, C.P.S... Va.....		The Cumberland.
Day, Elizabeth Cathcart, A.&S... D. C.....		2511 Cliffbourne Place.
Deal, Alice, A.&S.....	Md.....	The Victoria.
A.B., 1899, Woman's College.		
Deal, Roy Linney, A.&S.....	N. C.....	1433 Rhode Island Ave.
De Baun, Claud, C.P.S.....	Ariz.....	1132 8th Street.
Degenhardt, George Albert, Eng.c. D. C.....		1227 Wisconsin Avenue.
Degnan, George A., Eng.m.....	Pa.....	450 M Street.
Dembrovsky, William Louis, A.&S. Russia....		708 H Street, N. E.
Deyo, Clarence Eugene, A.&S.... Conn.....		Y. M. C. A.
Dobyns, Dorothy, A.&S.....	D. C.....	1957 Biltmore Street.

Name.	Legal residence.	City address.
Dodd, Philip Lindsley, C.P.S.....	N. J.....	824 Connecticut Avenue.
A.B., 1908, Rutgers College.		
Dolliver, Garrett Brown, A.&S.....	S. D.....	Y. M. C. A.
Donegan, James J., A.&S.....	D. C.....	1912 Jackson St., N. E.
Donk, Peter J., A.&S.....	Fla.....	The Brunswick.
Donk, Marion Gilbert, Eng.....	Fla.....	The Brunswick.
B.S., 1898, Florida Agricultural College.		
A.B., 1901, Harvard University.		
B.S. in C.E., 1910, George Washington University.		
Dougherty, Howard Francis, Eng.c.Md.....		824 13th Street.
Draper, Anne Elizabeth, A.&S.....	N. Y.....	1330 Vermont Avenue.
Dugan, John A., Eng.m.....	D. C.....	3419 Dent Place.
Dulin, Wm. Shelton Gordon, Eng.c.D. C.....		1420 Penna. Avenue.
Dunbar, Ralph McNeal, A.&S.....	Md.....	Y. M. C. A.
Dunlap, Henrietta Frances, T.C.....	D. C.....	1622 19th Street.
Dutton, Donald Langley, Eng.c.....	D. C.....	1721 Kilbourne Place.
Dwyer, John Rochford, Eng.c.....	D. C.....	628 F Street, S. W.
Eberly, Clarence F., A.&S.....	Ohio.....	1733 19th Street.
Eddingfield, Ina Deane, T.C.....	D. C.....	1440 Harvard Street.
Edmonds, R. W., A.&S.....	D. C.....	1239 Irving Street.
Edson, Suzane Grace, A.&S.....	Vt.....	2818 13th Street.
A.B., 1907, Smith College.		
Edwards, Mary Beulah, T.C.....	S. C.....	1224 13th Street.
Egbert, Freda Dorothy, T.C.....	D. C.....	1739 1st Street.
Eiker, Mattie, A.&S.....	D. C.....	1006 Otis Place.
Elwood, William Adam, Eng.c.....	D. C.....	635 F Street, N. E.
Engel, Morris Edward, Eng.m.....	Pa.....	1016 S. C. Ave., S. E.
Estler, Harry Smith, Eng.m.....	Va.....	1245 31st Street.
Evans, Lulu Mae, A.&S.....	Mo.....	200 A Street, S. E.
Evans, William Vincent, A.&S.....	Mont.....	1217 Decatur Street.
Falconer, Hope Haines, Eng.....	Va.....	9 S Street.
Fant, Jessie Du Bois, T.C.....	Idaho.....	115 12th Street, S. E.
Farnham, Arthur Blanchard, Eng.c.D. C.....		1774 U Street.
Farwell, Clarence Gilbert, A.&S.....	Mass.....	1511 13th Street.
A.B., 1910, The George Washington University.		
Faunce, Mary E., A.&S.....	D. C.....	317 11th Street, S. W.
Ferguson, Elizabeth, A.&S.....	D. C.....	1239 Kenyon Street.
Fickas, Melville P., A.&S.....	Ariz.....	Civil Service Com.
Fickling, Evalina Judith, T.C.....	D. C.....	312 A Street, N. E.
Finch, Elmer Harrison, Eng.c.....	Mich.....	Geological Survey.
Finkelstein, Henry Charles, C.P.S.D. C.....		Bond Building.
Finkelstein, Reuben, T.C.....	D. C.....	616 M Street, N. W.
Fitch, William Reed, A.&S.....	N. D.....	The Sherman.
Fleming, John Paton, A.&S.....	Va.....	1861 Wyoming Avenue.



Name.	Legal residence.	City address.
Freeman, Le Roy A., Eng.c.....	D. C.....	46 V Street.
Frey, Ralph Wylie, A.&S.....	D. C.....	1343 Q Street.
Frizzell, Genevieve Margaret, A.&S.....	D. C.....	241 8th Street, N. E.
Fuller, Aubrey Vail, A.&S.....	D. C.....	2318 1st Street. B.S., 1910, The George Washington University.
Fulton, William Duane, Jr., C.P.S. Ohio.....		1404 M Street.
Fultz, Miles Evan, Eng.e.....	D. C.....	320 4½ Street, S. W.
Galbraith, Esther Elizabeth, A.&S.D. C.....		3512 14th Street, N. E.
Gardner, Helen Burnett, T.C.....	D. C.....	623 East Capitol Street.
Gardiner, Martin Earl, C.P.S.....	Ill.....	1104 13th Street.
Gentzkow, Cleon J., A.&S.....	Minn.....	1323 Q Street.
Geschickter, Jeanette, A.&S.....	D. C.....	1239 12th Street.
Giantvalley, Earl Arnold, A.&S.....	Minn.....	National Museum.
Gill, Calvert Burke, Eng.e.....	Md.....	219 N. Calvert Street, Baltimore, Md.
Gilliss, Helen, T.C.....	D. C.....	1307 Kenyon Street.
Gillmore, Stuart Hagner, A.&S.....	Va.....	1700 15th Street.
Glass, Robert Lewis, Eng.e.....	D. C.....	1524 Columbia Street.
Glikstein, Nathan H., A.&S.....	Wis.....	1378 Harvard Street.
Goding, Anne M., T.C.....	D. C.....	1419 R Street.
Goebel, Annie Pauline, T.C.....	D. C.....	3333 Prospect Avenue.
Gonzalez-Lamas, Antonio, Eng.c.....	P. R.....	908 15th Street.
Gordon, Helen, T.C.....	Ill.....	1627 Lamont Street.
Gore, Michael Alvord, A.&S.....	D. C.....	1147 N. H. Avenue.
Graff, Leva Bee, A.&S.....	Ill.....	Dewey Hotel. A.B., 1906, Woman's College.
Graham, Edgerton G., Eng.....	D. C.....	616 Keefer Place.
Granger, Roy T., C.P.S.....	Colo.....	1206 K Street. B.A., 1905, Cornell College, Iowa.
Green, Elsie Eugenia, A.&S.....	D. C.....	600 23d Street.
Greenberg, Louis, A.&S.....	D. C.....	612 N Street.
Greenwald, Harold Putnam, Eng.c.D. C.....		1749 Lanier Place.
Greenway, Charles Thomas, A.&S. Iowa.....		2003 H Street.
Grinnell, A. G., C.P.S.....	R. I.....	Y. M. C. A.
Grouard, Maria Louise, T.C.....	D. C.....	1600 Scott Circle.
Guy, Arthur Randolph, Eng.m....	D. C.....	1729 19th Street.
Gwinn, Thomas R., Eng.....	Md.....	1026 17th Street. B.S. in E.E., 1910, The George Washington University.
Hagar, William Valla, Eng.c.....	Vt.....	200 E Street. A.B., 1909, Middlebury College.
Haines, Ora E., A.&S.....	D. C.....	Civil Service Com.
Halsey, Arthur Sherman, Eng.m..	Pa.....	207 East Capitol Street.
Hamlin, Herbert Samuel, A.&S.....	Utah.....	2517 14th Street.

Name.	Legal residence.	City address.
Hammond, Bennett, Eng.e.....	Pa.....	1845 Monroe Street.
Handelsman, Samuel, A.&S.....	N. Y.....	719 3d Street.
Hansen, Wilhelm Gustav, C.P.S..	D. C.....	728 3d Street, N. E.
Hanson, Frank Blair, A.&S.....	Ill.....	Elvaton, Md.
Hantzman, William Henry, A.&S.	D. C.....	17 4th Street, S. E.
Hanvey, Edna E., A.&S.....	D. C.....	1315 Emerson Street.
Hardell, John William, Eng.....	D. C.....	906 P Street.
Hardell, Lelia B., A.&S.....	D. C.....	906 P Street.
Harden, Fred Geer, C.P.S.....	Nebr.....	231 B Street, N. E.
Hardin, Alene, A.&S.....	D. C.....	The Cairo.
Hardy, Margaret Boude, A.&S....	D. C.....	638 East Capitol Street.
Harper, Charles W., Eng.....	S. C.....	1008 10th Street.
Harrington, George Traver, A.&S.	Vt.....	1120 Virginia Avenue.
B.S., 1909, University of Vermont.		
Harris, Albert L., Eng.a.....	England....	1505 Lamont Street.
Harrison, Robert Horace, Eng.c..	D. C.....	2208 1st Street.
Harter, Eugene C., A.&S.....	Ohio.....	2019 N. Capitol Street.
Haslup, Alice Elma, T.C.....	Md.....	2114 18th Street.
Hawkins, Margaret Amelia, T.C..	D. C.....	1228 Fairmont Street.
Haycock, Robert Lee, T.C.....	D. C.....	2525 Wisconsin Avenue.
Hayden, Leo J., C.P.S.....	Mich.....	1715 Lincoln Ave. N. E.
Haynes, Albert, A.&S.....	Tenn.....	939 L Street.
Hearne, Susan Snell, A.&S.....	Mo.....	1307 P Street.
Heisley, George Edgar, Eng.....	D. C.....	638 5th Street, N. E.
Hendrix, Byron M., A.&S.....	Ohio.....	1302 Irving Street.
Hendry, M. Leland, A.&S.....	Md.....	Bethesda, Md.
Heron, Louis Mann, Eng.e.....	D. C.....	1321 11th Street.
Herring, Charles Eldred, C.P.S..	D. C.....	The Plymouth.
Hession, John H., Eng.c.....	Mass.....	1419 W Street.
Hiatt, Charles Edward, A.&S....	N. C.....	230 New Jersey Avenue.
Hicks, Russell E., A.&S.....	Md.....	Rockville, Md.
Hilleary, Mary Beatrice, T.C.....	D. C.....	3314 P Street.
Hitchcock, Horace Dailey, A.&S..	Kans.....	1720 Newton Street.
Hobbs, Enid Marian, A.&S.....	Canada....	1364 Perry Place.
Hobson, Frank Millard, Eng.c....	D. C.....	2013 G Street.
Hodgkins, George Wilson, A.&S..	D. C.....	1830 T Street.
Hodgkins, Howard Wilkinson,		
Eng.c.....	D. C.....	1830 T Street.
Hoffman, Edwin S., Eng.e.....	Pa.....	1007 Mass. Ave., N. E.
Holden, Brigid Elizabeth, T.C....	D. C.....	488 I Street, S. W.
Holder, Herbert Stanley, Eng....	Iowa.....	110 F Street, S. E.
Hole, Myra Cadwalader, A.&S....	Nebr.....	1215 Harvard Street.
Holmes, Ronald M., A.&S.....	D. C.....	726 3d Street, N. E.



Name.	Legal residence.	City address.
Hood, William Ross, T.C.....	Ala.....	U. S. Bureau of Educ'n. A.B., 1900, Howard College, Ala.
Hooker, William A., C.P.S.....	D. C.....	1829 G Street.
Hospital, Ralph, A.&S.....	D. C.....	3500 15th Street, Brookland, D. C.
Hough, Roland P., Eng.c.....	Va.....	Clarendon, Va.
Houghton, Carlos Cranford, A.&S.D. C.....		2011 Kalorama Road.
Hoult, Geneva Frances, A.&S.....	Ill.....	23 1st Street, N. E.
Howard, Frank Atherton, Eng.m. D. C.....		1733 R Street.
Howard, Lela, A.&S.....	Mich.....	2610 Garfield Street.
Howell, Willie H., A.&S.....	W. Va.....	329 F Street, N. E.
Hughes, Lotus Graham, C.P.S.....	D. C.....	No. 705, Munsey Bldg.
Hughes, Margaret Louisa, T.C....	D. C.....	315 B Street, N. E.
Hughes, William G., Eng.m.....	D. C.....	The Eutaw Apts.
Hulsizer, Robert Inslee, Eng.e....	Mass.....	310 C Street.
Hummer, Elizabeth Alice, A.&S....	D. C.....	638 East Capitol Street.
Huse, Kenneth, Eng.....	Mass.....	1229 Evarts Street.
Ingersoll, Edwin Henry, A.&S., ..	D. C.....	Bu. A. I., Dept. Agric.
Ingram, Charlton Weber, Eng.m....	D. C.....	211 7th Street, N. E.
Jackson, Maude Lillian, A.&S....	D. C.....	3630 13th Street, N. E.
Jacobi, Herbert J., Eng.....	D. C.....	1855 Calvert Street.
Janer, Ramon Isaac, C.P.S.....	Porto Rico.	Apt. 16, The Maxwell.
Janney, Grace McPherson, T.C....	D. C.....	1006 Rhode Island Ave.
Jeffrey, Frank Rumer, A.&S.....	Wash.....	1433 Rhode Island Ave.
Jenkins, Oliver Lloyd, Eng.m.....	Ind.....	218 6th Street, S. E.
Jenks, R. G., C.P.S.....	D. C.....	951 Massachusetts Ave.
Johnson, Charles Albert, T.C....	D. C.....	2837 12th Street, N. E.
Johnson, Robert, C.P.S.....	Mo.....	1304 Belmont Road.
Johnson, Ross Holbrook, A.&S....	D. C.....	1804 Belmont Road.
Johnston, Anna E., A.&S.....	Ohio.....	Civil Service Com.
Jones, Eleanor Isabelle, A.&S....	D. C.....	1440 Meridian Place.
Jordan, Isabel Louise, T.C.....	D. C.....	Hotel Stratford.
Justement, Louis Henri Eugene,	Eng.a.....	D. C..... 914 L Street.
Kalman, Lasser, C.P.S.....	N. Y.....	142 A Street, N. E.
Kause, Robert Lincoln, Eng.c....	Ohio.....	1905 Jackson Street, N. E.
Kaye, Frank B., A.&S.....	D. C.....	1258 Morse Street, N. E.
Keats, Harold, A.&S.....	D. C.....	930 18th Street.
Keiter, William Isaiah, A.&S....	Pa.....	2431 N Street.
Kelley, Eva Phelps, A.&S.....	Iowa.....	213 Holly Ave., Takoma Park.
Kelly, Walker E., C.P.S.....	D. C.....	19 5th Street, S. E.
Kemmerer, Charles Tilghman,	C.P.S.....	Iowa..... Apt. 32, 1115 8th Street.

Name.	Legal residence.	City address.
Kemper, Graham, C.P.S.....	Ky.....	951 Massachusetts Ave. B.S., 1896, Kentucky University. M.S., 1897, Kentucky State College.
Kennedy, Charles Bayard, Eng.c.....	D. C.....	1304 13th Street.
Kent, Henry J., Eng.....	Mass.....	3145 Mt. Pleasant Street.
Kent, Lavinia Grace, A.&S.....	Me.....	21 6th Street, N. E.
Kerby, Katharine, A.&S.....	D. C.....	2606 L Street.
King, James Alvin, Eng.....	Ind.....	819 5th Street.
King, Myrtle Virginia, A.&S.....	D. C.....	328 10th Street, N. E.
Kingsbury, Joseph B., A.&S.....	Iowa.....	Y. M. C. A.
Kinsell, Rex Emir, A.&S.....	Iowa.....	1335 Mass. Ave., S. E.
Kirk, Theodore Tilton, Eng.c.....	Ky.....	1309 Delafield Place.
Kisseleff, Charles William, A.&S.....	N. J.....	1517 5th Street.
Kittredge, Scott F., C.P.S.....	Me.....	50 M Street.
Kouns, J. Lewrain, A.&S.....	Ky.....	1406 15th Street.
Kuehn, Herman A., Eng.c.....	Ind.....	411 P Street.
Kunkel, Fred E., A.&S.....	Pa.....	1538 17th Street.
Lamson, Frank S., Eng.e.....	D. C.....	2439 18th Street.
Lasier, Emery Liebschutz, A.&S.....	N. H.....	1427 Girard Street.
Lasley, Dana McGuffey, Eng.m.....	D. C.....	The Albemarle.
Lauck, Lee G., A.&S.....	W. Va.....	1445 Massachusetts Ave.
Lawson, Margaret Lucile, T.C.....	D. C.....	815 C Street, N. E.
Lay, Tracy, C.P.S.....	Ala.....	House of Rep. Office Bldg.
Le Duc, Percy Walborne, Eng.c.....	D. C.....	817 Varnum Street.
Lee, Lelia, T.C.....	D. C.....	515 10th Street, N. E.
Le Febvre, Clarence Charles, T.C.....	Wis.....	1537 I Street. A.B., 1907, University of Wisconsin.
Leland, Florence Ruth, A.&S.....	D. C.....	206 5th Street, S. E.
Leonard, Lewis Thompson, A.&S.....	D. C.....	520 G Street, N. E.
Leonard, William Michael, Eng.e.....	D. C.....	520 G Street, N. E.
Lepper, Henry Albert, A.&S.....	D. C.....	1620 6th Street.
Levine, Joseph Carsdon, C.P.S.....	N. Y.....	941 H Street.
Lewis, Alex S., A.&S.....	N. Y.....	1104 5th Street.
Lewis, Erna Watson, T.C.....	D. C.....	R. F. D., No. 4, Washington, D. C.
Liebschutz, Eugenie, T.C.....	France.....	2005 G Street.
Lind, Ida May, T.C.....	D. C.....	506 A Street, N. E.
Lindsay, Adna, T.C.....	Ind.....	123 A Street, N. E.
Litchfield, Henry Edward, Eng.....	D. C.....	308 L Street, S. E.
Littleton, Laura, A.&S.....	Kans.....	1822 Park Road.
Liu, Yu Hu, C.P.S.....	China.....	Chinese Legation. M.A., College of Languages, China.
Lloyd, Egbert Thompson, Eng.....	D. C.....	2604 Connecticut Ave.



Name.	Legal residence.	City address.
Llufrio, Albert Vincent, A.&S....	D. C.....	618 8th Street, N. E.
Lodholz, Louis, A.&S.....	Pa.....	1008 N. H. Avenue.
Love, Albert Lee, T.C.....	Miss.....	Census Bureau.
S.B., 1906, Miss. Agr'l and Mechanical College.		
Love, Harry Donald, Eng.e.....	Mich.....	214 E Street.
Lovering, George Varnum, A.&S. Mass.....		2715 13th Street.
Lowe, Edith Blinston, A.&S.....	D. C.....	2622 Woodley Place.
Luckings, Harry C., A.&S.....	N. J.....	522 7th Street, N. E.
Luebker, Timm Adolph, Eng.c....	D. C.....	1314 Kearney Street, Brookland, D. C.
Lugo-Vina, Wences, A.&S.....	P. R.....	214 A Street, N. E.
Luhn, Harriet Emma, T.C.....	D. C.....	1407 15th Street.
Lusby, Charles Edward, A.&S....	D. C.....	2909 O Street.
McAdams, Ralph W., Eng.c.....	Kans.....	507 B Street, N. E.
McCabe, Lulu Mignonne, A.&S....	Kans.....	3469 14th Street.
McCalip, Curtis Edgar, Eng.e....	Ind.....	111 13th Street, S. E.
McConnell, Harry Raymond,		
Eng.m.....	Va.....	218 6th Street, S. E.
McCormick, John D., Eng.c.....	D. C.....	1377 N. C. Ave.
McCubbin, Charles Carr, Eng....	Md.....	423 10th Street.
MacFarlane, Nellie Rae, T.C.....	D. C.....	1719 13th Street.
McKiernan, Charles Patrick,		
C.P.S.....	Conn.....	429 6th Street.
A.B., 1906, Yale University.		
McKnew, Jane Marion, T.C.....	D. C.....	2112 G Street.
McLachlen, Lanier P., C.P.S....	D. C.....	2800 Ontario Road.
McMahon, John G., C.P.S.....	D. C.....	1202 N. Capitol Street.
Maddox, William Johnston, C.P.S..	D. C.....	42 Q Street, N. E.
Magruder, Oliver Graham, Eng.c..	D. C.....	54 U Street.
Manning, Thomas R., A.&S.....	Pa.....	254 9th Street, N. E.
Marcus, Mandel, C.P.S.....	Wis.....	1378 Harvard Street.
Marks, Joseph, Eng.c.....	D. C.....	903 F Street, N. E.
Marshall, William Francis, C.P.S..	R. I.....	1736 G Street.
Martin, Henriette H., A.&S.....	France.....	1719 13th Street.
Marvin, Francis Edwin, Eng.e....	D. C.....	606 F Street, N. E.
Mason, Charles S., A.&S.....	D. C.....	2207 Franklin St., N. E.
Mason, Josephine Dwight, T.C....	Mass.....	132 A Street, N. E.
Mason, Samuel Worcester, Eng.e..	D. C.....	308 B Street, N. E.
Mason, Winfield Scott, C.P.S....	Calif.....	224 3rd Street.
Mattingly, Gentry Heard, Eng.e..	D. C.....	475 F Street, S. W.
Maupin, William Firey, A.&S....	N. C.....	3021 N Street.
Maxcy, Kenneth Fuller, A.&S....	D. C.....	1118 Rhode Island Ave.
Maxson, Louis Archer, A.&S....	Md.....	Kensington, Md.
Mayfield, Charlotte Virginia, A.&S.	D. C.....	1912 Biltmore Street.

Name.	Legal residence.	City address.
Mayne, John Clark, A.&S.....	D. C.....	4201 Georgia Avenue.
Meier, Julius Earnest, A.&S.....	Ohio.....	415 9th Street, N. E.
Menzel, Margaret L. T., A.&S....	D. C.....	1920 G Street.
Merritt, Leonard Atkins, C.P.S....	Minn.....	154 F Street, S. E.
LL.B., 1904, LL.M., 1905, The George Washington University.		
Middleton, Herbert Paul, Eng.c....	N. Y.....	Room 409, Union Trust Building.
Miller, Allison Naylor, A.&S.....	D. C.....	Cleveland Park.
Miller, Dayton B., A.&S.....	D. C.....	Langdon, D. C.
Milliken, Florence Ethel, T.C....	D. C.....	463 P Street.
Monaway, James Lewis, A.&S....	Ala.....	1454 Fairmont Street.
Monk, Ella May, T.C.....	D. C.....	3025 15th Street.
Pd.B., 1906, New York State Normal College.		
Moody, Theodore Lyman, Eng.c....	Md.....	1512 P Street.
Moore, Helen Barbara, A.&S.....	D. C.....	1255 I Street, N. E.
Moore, Kate Carroll, A.&S.....	D. C.....	2024 15th Street.
Moran, Robert H., Eng.c.....	D. C.....	1935 Biltmore Street.
Morehouse, Alanson D., C.P.S....	D. C.....	1526 O Street.
Moreland, John Edwin, Eng.....	D. C.....	1113 15th Street.
Morris, Daniel Leigh, Eng.c.....	D. C.....	63 S Street.
Morse, Elisha W., C.P.S.....	D. C.....	1723 Willard Street.
Moudy, Alvin Curtis, Eng.c.....	Texas.....	126 Winder Building.
Muench, Elsa Dorothea, A.&S....	D. C.....	1354 Monroe Street.
Mullen, Charles E., C.P.S.....	Wis.....	1014 H Street.
Munson, R. H., C.P.S.....	D. C.....	The Grafton.
Murray, Charles N., C.P.S.....	D. C.....	1835 Monroe Street.
Murray, Susan Harriet, A.&S....	D. C.....	3309 O Street.
Murray, Thomas Patrick, Eng....	Mass.....	1902 H Street.
Myers, Henry Bernard, Eng.c....	Md.....	729 15th Street.
Nairn, William Wallace, Jr., Eng.	D. C.....	901 Lawrence Street, Brookland, D. C.
Nash, James P., Eng.c.....	Pa.....	718 19th Street.
Nelson, Roy W., A.&S.....	Nebr.....	211 New Jersey Avenue.
Newbold, Katharine Mitchell, A.&S.....	D. C.....	11 Irving Street, Chevy Chase.
Newton, Grace Gadsdon, T.C....	D. C.....	1452 Fairmont Street.
Nicholson, Helen Sellman, A.&S.	D. C.....	2821 Q Street.
Nickerson, Chester Arthur, A.&S.	Wis.....	508, Y. M. C. A.
Nielsen, Joseph Nicolay, Eng.a...	Ill.....	1615 Florida Avenue.
Nordhoff, Bertha Alma, T.C....	D. C.....	1538 Columbia Street.
Norris, Rhesa Niles, Eng.m.....	D. C.....	2121 O Street.
North, Hilda, T.C.....	D. C.....	2807 14th Street.
Nutt, George Sinclair, A.&S.....	Ill.....	2124 Penna. Avenue.



Name.	Legal residence.	City address.
Nyman, A. O., A.&S.....	Ill.....	Apt. 43, The Plymouth.
Offutt, Viola, T.C.....	Md.....	Bethesda, Md.
Olson, Oliver M., A.&S.....	Iowa.....	807 11th Street.
O'Neal, Warwick Christy, C.P.S. D. C.....		1713 15th Street.
C.E., 1906, Pennsylvania Military College.		
Ossire, Cora Amelia, T.C.....	D. C.....	2729 Ontario Road.
Osterhout, Karl Jackson, A.&S... D. C.....		U. S. Bureau of Mines.
Otto, Arnold Clarence, C.P.S.... Wis.....		1717 S Street.
Outwater, Mrs. Kate Sorrell, T.C. Va.....		620 F Street, S. W.
Palmer, Elizabeth Downer, T.C... D. C.....		2818 13th Street.
Panopio, Eliseo M., Eng.....	P. I.....	Coast and Geodetic Sur.
Papson, Edward Taylor, A.&S... D. C.....		127 11th Street, N. E.
Parker, Edwin Pearson, Jr., Eng.e D. C.....		1752 Ontario Place.
Parks, George Edward, A.&S.... D. C.....		2463 6th Street.
Parry, William, Eng.e.....	Pa.....	1518 Columbia Street.
Patterson, Ruth Capelle, T.C.... D. C.....		2016 15th Street.
Pearce, Lida Marie, T.C.....	D. C.....	1737 S Street.
Peterson, Frank Daniel, Eng.c.... Ill.....		214, Y. M. C. A.
Petrovitch, Woislav M., C.P.S....	Servia....	Dumbarton Court.
A.B., 1910, The George Washington University.		
Pevare, John Francis, A.&S.....	N. H.....	2219 1st Street.
Phillips, Humphrey B., C.P.S....	England...	British Embassv.
Phillips, John Andrew, Eng.c....	D. C.....	943 S Street.
Phillips, Vera Marie, A.&S.....	D. C.....	3327 18th Street.
Pierce, Flora, A.&S.....	D. C.....	921 Westminster Street.
Pierce, James Francis, Eng.....	Mich.....	908 S Street.
Piggott, Mary Elizabeth, T.C....	Va.....	East Falls Church, Va.
Piper, Edgar Raymond, Eng.c....	D. C.....	2605 Adams Mill Road.
Plummer, Willis Jordan, C.P.S... Va.....		1100 13th Street.
Poole, George, Eng.m.....	D. C.....	903 E Street, S. E.
Pope, Ruth V., A.&S.....	D. C.....	1435 Monroe Street.
Potbury, Robert John, Eng.c....	D. C.....	1131 Euclid Street.
Potter, Charles Hollister, A.&S... N. C.....		1840 California Street.
Powell, William Franklin, C.P.S. D. C.....		317 John Marshall Place.
Pozen, Morris A., A.&S.....	D. C.....	739 13th Street.
Prentiss, Augustin Mitchell, Eng.c.S. C.....		1727 Church Street.
Price, Lawrence P., A.&S.....	Pa.....	227, P. O. Department.
Putnam, May, A.&S.....	N. Y.....	2025 O Street.
Quencer, Clinton A., A.&S.....	N. Y.....	1828 H Street.
Rager, Amy Elizabeth, A.&S....	D. C.....	812 21st Street.
Raymond, Norman Ticknor, A.&S.D. C.....		Apt. 301, The Alabama.
Reavis, Andrew Bryant, A.&S....	Tenn.....	Patent Office.
Reavis, Joseph P., A.&S.....	Tenn.....	The Northumberland.

Name.	Legal residence.	City address.
Redfield, Arthur Huber, A.&S.	D. C.	9 Randolph Place, N. E.
Reeve, Felicia Ann, T.C.	D. C.	1626 19th Street.
Reges, Max. F., Eng.c.	Pa.	117 K Street, N. W.
Reinburg, George Everett Adams, A.&S.	D. C.	1453 Chapin Street.
Renner, Wilbert Vernon, Eng.c.	D. C.	1405 F Street.
Requena, Manuel Gabriel, Eng.c., Mexico.		920 New York Avenue.
Rice, George Augustus, A.&S.	S. D.	1734 Penna. Avenue.
Richards, Alice Mary, T.C.	D. C.	311 Shepherd Street.
Richards, Henry Tilton, A.&S.	Mass.	The Lenox.
Riggles, Joseph Richard, A.&S.	D. C.	1328 Fairmont Street.
Risvold, Carl Sophus, A.&S.	Wis.	1132 10th Street.
Roberts, Iorwerth, A.&S.	D. C.	1731 13th Street.
Robeson, Edith Maxcy, A.&S.	D. C.	10th and Monroe Streets.
Robinson, Bessie, A.&S.	D. C.	3228 13th Street.
Rodgers, Bertha, T.C.	D. C.	1445 Massachusetts Ave.
Rogers, Frank Beecher, Eng.	N. Y.	1310 Girard Street.
Rogers, Mrs. Florence Hopkins, T.C.	D. C.	2013 14th Street.
Rohrer, Joseph R., C.P.S.	Ohio.	1446 N Street.
Rollins, Helen Gertrude, T.C.	Mich.	122 15th Street, N. E.
Rose, Anna Loretto, A.&S.	D. C.	301 S Street, N. E.
Rose, Leonard Julian, Eng.c.	D. C.	3623 10th Street.
Rosen, Urban F., Eng. c.	D. C.	127 C Street, S. E.
Rosenthal, Maurice, C.P.S.	Mass.	414 P Street.
Ross, Raymond Lawrence, Eng.	Pa.	1418 Ames Place, N. E.
Roundy, Paul V., A.&S.	N. Y.	Geological Survey.
Rous, Ella Woolford, T.C.	La.	1906 Florida Avenue.
Rouzer, Horace Dodge, Eng.c.	Md.	Room 510, Mills Bldg.
Rover, Leo A., C.P.S.	D. C.	313 John Marshall Place.
Rowley, Clifford Alonzo, A.&S.	D. C.	1344 Kenyon Street.
Rumbough, John Baker, Eng.	N. C.	The Iowa, 13th & O Sts.
Russell, Paul G., A.&S.	D. C.	3538 Warder Street.
Safford, Howard Palmer, Eng.e.	D. C.	2445 Georgia Avenue.
Sale, Prentiss Dixon, Eng.c.	D. C.	225 8th Street, N. E.
Sanborn, George A., A.&S.	Wis.	Y. M. C. A.
Sanders, Elsie, T.C.	D. C.	1515 Park Road.
Schladt, George J., Eng.e.	D. C.	820 B Street, N. E.
Schmied, James William, A.&S.	Ohio.	943 O Street.
Schmitt, Edwin Alexis, Eng.c.	D. C.	211 Florida Avenue.
Schmitt, Hugo Rudolph, Eng.e.	D. C.	211 Florida Avenue.
Schmitt, Waldo Lasalle, A.&S.	D. C.	211 Florida Avenue.
Schwartz, Herbert Henry, Eng.e.	D. C.	1412 G Street, S. E.
Scott, Joseph Addison Preston, Jr., Eng.c.	D. C.	902 Maryland Ave., N. E.



Name.	Legal residence.	City address.
Scott, Leila Fordham, A.&S.....	D. C.....	649 B Street, N. E.
Scott, Walter Clifford, A.&S.....	D. C.....	21 9th Street, N. E.
Seamon, Alexander Rives, A.&S.....	Mexico.....	Alexandria, Va.
Seiler, Paul B., A.&S.....	N. J.....	Brookland, D. C.
Se Legue, Charles Albert, A.&S.....	Ind.....	1400 Chapin Street.
Shackelford, Laura, A.&S.....	D. C.....	924 Maryland Ave., N. E.
B.S., 1909, The George Washington University.		
Sheng, Lu Kung, C.P.S.....	China.....	2001 19th Street.
Shepherd, Osborne, A.&S.....	W. Va.....	123 A Street, N. E.
Sherline, Herman Milton, Eng.c.....	N. Y.....	105 Rhode Island Ave.
Shuman, Royal Lewis, A.&S.....	D. C.....	1846 U Street.
Sikken, Janet Melvin, A.&S.....	D. C.....	129 T Street.
Simpson, Gustavus Sailer, A.&S.....	D. C.....	1477 Columbia Road.
Skinner, Arthur William, Eng.m.....	Md.....	Takoma Park, D. C.
Skinner, Frances Beckwith, A.&S.....	D. C.....	2525 Wisconsin Avenue.
Sllarrow, Mrs. Mary Gordon, A.&S.....	D. C.....	1308 13th Street.
Sllarrow, Malcolm Gordon, Eng.c.....	D. C.....	1308 13th Street.
Sloane, Charles Edward, Eng.c.....	D. C.....	1733 T Street.
Smallwood, Dorothy Archibald,		
A.&S.....	D. C.....	2107 S Street.
Smith, Conger Ryder, C.P.S.....	D. C.....	Y. M. C. A.
Smith, Duncan Campbell, A.&S.....	Md.....	Rockville, Md.
Smith, Janie Alice, A.&S.....	D. C.....	637 Mass. Ave., N. E.
Smith, James Rierison, A.&S.....	N. C.....	800 L Street.
Smith, Robert Hamilton, C.P.S.....	D. C.....	1746 Kalorama Road.
Smith, Rodney Marshall, Eng.c.....	D. C.....	619 12th Street, N. E.
Smith, Vincent Baker, Eng.c.....	D. C.....	3007 P Street.
Smith, Willis M., A.&S.....	Mich.....	726 13th Street.
Snead, Georgie T., A.&S.....	Va.....	1129 10th Street.
Snelling, Henry Hornor, Eng.m.....	Va.....	3522 10th Street.
Snow, Chaunsey D., T.C.....	Mass.....	2004 G Street.
A.B., 1910, Harvard University.		
Snyder, David Abner, C.P.S.....	Pa.....	23 Iowa Circle.
Soling, Abraham, Eng.....	N. Y.....	Bureau of Standards.
Somers, Harvey Leander, T.C.....	Mass.....	616 18th Street.
A.B., 1910, Harvard University.		
Stannard, Winfield Hancock, A.&S.....	Mass.....	1206 O Street.
Staves, Marion C., Eng.....	Iowa.....	Coywood Apt. House.
Stearns, Stella Burger, T.C.....	Minn.....	National Park Seminary.
A.B., 1892, University of Minnesota.		
Steever, Laura Winfield, A.&S.....	Md.....	Forest Service.
Steger, Mary Evelyn, A.&S.....	D. C.....	1906 Florida Avenue.
Sterling, Frederick A., C.P.S.....	D. C.....	1718 H Street.

## STUDENTS IN THE UNIVERSITY.

233

Name.	Legal residence.	City address.
Stern, Alfred G., C.P.S.....	D. C.....	1315 Columbia Road.
Stewart, Elmer, A.&S.....	D. C.....	1812 Lamont Street.
Stilwell, Marie C., A.&S.....	Mich.....	423 Fourth Street.
Stockard, Marietta, T.C.....	N. C.....	1627 Lamont Street.
Stockton, Thomas Jefferson, Eng.e.D. C.....		1944 2d Street.
Stoll, Clara, T.C.....	Austria.....	1302 Rhode Island Ave.
Stoulil, E. J., Eng.e.....	N. D.....	306 I Street.
Street, Blanche, T.C.....	D. C.....	1000 9th Street.
Sturtevant, Georgia Anna, A.&S. Vt.....		1221 K Street.
Stuwe, John Daniel, Eng.e.....	Minn.....	1017 P Street.
Summy, Helen, A.&S.....	D. C.....	920 19th Street.
Summy, Katherine Strong, A.&S.D. C.....		920 19th Street.
Summy, William Frank, A.&S.....	D. C.....	1623 R Street.
Swann, Theodore Magruder, A.&S.....	Va.....	Clarendon, Va.
Swartzell, John Naylor, Eng.m.....	Md.....	Chevy Chase, Md.
Taggart, Earl, A.&S.....	D. C.....	2124 Penna. Avenue.
Tauberschmidt, John A., A.&S.....	D. C.....	922 Westminster Street.
Taylor, Irving Paul, A.&S.....	D. C.....	1433 Belmont Street.
Taylor, James Norman, A.&S.....	Del.....	Bu. A. I., Dept. of Agr.
Taylor, Nellie Boyd, T.C.....	D. C.....	1000 N Street.
Taylor, Olivia Alexander, A.&S.....	D. C.....	The Exeter.
Thatcher, Arthur S., A.&S.....	Pa.....	Bureau of Chemistry.
Thies, William Herman, Eng.....	Md.....	W. N. Y. Drafting-room.
Thomas, Frank H., A.&S.....	D. C.....	18th and Park Road.
Thomas, Lisle, A.&S.....	Mich.....	1012 17th Street.
Thomas, William John Denziloe, C.P.S.....	D. C.....	1226 Irving Street, Brookland, D. C.
Thompson, Clarendon Haysmer, A.&S.....	Mich.....	1501 11th Street.
Thompson, Harry Woodward, Eng.m.....	Iowa.....	1340 Girard Street.
Thompson, John B., A.&S.....	Ind.....	1133 5th Street.
Thompson, Oscar, C.P.S.....	Wis.....	1443 Massachusetts Ave.
Thomson, Harriet Huntington, A.&S.....	D. C.....	3423 16th Street.
Thorne, Harold Carrier, Eng.e.....	D. C.....	5 Rhode Island Avenue.
Thorwarth, Julia Helen, A.&S.....	Minn.....	1320 Park Road.
Tiffany, Emma Ruth, T.C.....	D. C.....	3409 Brown Street.
Todd, Guillermo, T.C.....	Venezuela..	1343 Monroe Street.
A. B., 1895. National College of Carraeas.		
Tomlin, Josephine Marie, A.&S.....	D. C.....	1011 B Street. N. E.
Toussaint, Henry J., Eng.e.....	D. C.....	304 Hibbs Building.
Townsend, Karl H., Eng.e.....	Texas.....	1611 Lincoln Ave., N. E.



Name.	Legal residence.	City address.
Towson, Richard Mathew, Eng...	Va.....	1309 22d Street.
Trigg, William Stark, Eng.e.....	Va.....	Vienna, Va.
True, Elizabeth Fortune, T.C.....	D. C.....	1604 17th Street.
A.B., 1910, Goncher College.		
Trumbower, Eli C., A.&S.....	Del.....	1717 Lincoln Avenue.
Tucker, Prescott Stearns, A.&S...	D. C.....	802 Mass. Ave., N. E.
Tunstall, Florence Marie, A.&S...	D. C.....	1302 L Street.
Ulrickson, Hilda Louise, A.&S...	Vt.....	617 21st Street.
Underwood, Harriet, T.C.....	D. C.....	2801 Q Street.
Urner, Nina, A.&S.....	D. C.....	40 C Street, N. E.
Vandegrift, John Leslie, Eng.m...	D. C.....	1214 G Street, N. E.
Van Fossen, John Ray, A.&S.....	Iowa.....	Arlington, Va.
A.B., 1904, Cornell College.		
Van Loock, Louis Anthonv, Eng.	D. C.....	104 15th Street, N. E.
Van Riper, Emily, A.&S.....	Ind.....	1844 Columbia Road.
Van Schaick, John, Jr., T.C.....	D. C.....	1417 Massachusetts Ave.
A.B., 1894, Union College.		
Veihmeyer, Frank, Eng.c.....	D. C.....	1518 S Street.
Vernon, James Mercer, C.P.S....	Wash.....	1519 20th Street.
Vinton, Benjamin, C.P.S.....	D. C.....	Stratford Hotel.
von Schrader, Irene, A.&S.....	Mo.....	1410 21st Street.
Wagner, Warren H., A.&S.....	D. C.....	642 G Street, N. E.
Waite, Stanley Sargent, C.P.S....	Okla.....	Burlington Apartments.
Wakefield, Walter Harold, Eng.m	D. C.....	710 H Street.
Walker, Alberta, T.C.....	D. C.....	1634 S Street.
Walker, Bertha Florine, T.C....	D. C.....	420 B Street, N. E.
Walsh, Helen Ivey, T.C.....	D. C.....	1372 Kenyon Street.
Walter, Wallace Wilson, A.&S...	D. C.....	The Chalfonte.
Walters, Marion Irvén, Eng.c....	D. C.....	3228 Warder Street.
Walton, George Pelham, A.&S...	D. C.....	Langdon, D. C.
Warner, Harold E., A.&S.....	D. C.....	1020 9th Street.
Watkins, Catherine Rose, T.C....	D. C.....	1720 Oregon Avenue.
Watts, Mary Jane, T.C.....	D. C.....	1007 Irving Street.
Webb, James William, Eng.....	D. C.....	420 10th Street, S. E.
Welden, Wilbur Gerald, A.&S....	Mich.....	38 T Street.
Weller, Ethel Marguerite, A.&S...	D. C.....	753 8th Street, S. E.
Wharton, Roger Daniel, Eng.c...	D. C.....	1657 Lamont Street.
Wheeler, Harold Leslie, A.&S....	Mass.....	1824 California Street.
White, Mary Josephine, T.C....	Ohio.....	National Park Seminary.
Whitehead, Edmonia Powers,		
A.&S.....	Va.....	1521 28th Street.
Whitney, Clifford Caswell, A.&S.	D. C.....	1128 B Street, N. E.
Whitney, Flora Goodridge, T.C...	D. C.....	633 East Capitol Street.
Wiegand, Henry Frank, Eng.e....	D. C.....	824 6th Street, S. W.

## STUDENTS IN THE UNIVERSITY.

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Name.	Legal residence.	City address.
Wiest, Edward, T.C.....	Pa.....	1443 Mass. Avenue.
Wild, Alfred E., Jr., Eng.m.....	D. C.....	12 10th Street, N. E.
Wilhelm, Robert Mason, A.&S.,... Md.....		1845 Calvert Street.
Willard, Nana B., A.&S.....	D. C.....	128 D Street.
Wiley, Edward Steuart, A.&S... Pa.....		1241 I Street, N. E.
Williams, Edith Arvonio, A.&S... D. C.....		1602 New Jersey Ave.
Williams, G. Ellis, A.&S.....	Md.....	1111 M Street.
Williams, Griffith Holland, A.&S.. D. C.....		1602 New Jersey Ave.
Wills, R. Mayo, Eng.....	Va.....	318 New York Avenue.
Willson, Charles Carter, Eng.....	D. C.....	57 R Street, N. E.
Wilson, Laurance Norton, A.&S... Idaho.....		2331 1st Street.
Wing-yan, Ho., Eng.c.....	China.....	Chinese Legation.
Wingate, Henry Armstrong, A.&S.N. Dak.....		1215 Monroe Street.
Wong, Ung Cek, Eng.m.....	China.....	1418 L Street.
Woodward, Esther Rittenhouse, T.C.....	D. C.....	125 New York Avenue.
Worster, Louise, A.&S.....	D. C.....	942 B Street, S. W.
Ying, Wu., Eng.c.....	China.....	48 M Street.
Yoder, Bertha Alice, T.C.....	Kans.....	144 11th Street, S. E.
Young, George William, C.P.S... D. C.....		1356 Irving Street.
Zalvidea, Juan A., Eng.....	P. I.....	115 S Street.
Zirkin, Maie, A.&S.....	D. C.....	821 14th Street.



## Summary.

## GRADUATE STUDENTS:

Students in attendance.....	8
Candidates for D.C.L. degree.....	1
Candidates for C.E. degree.....	2
Candidates for E.E. degree.....	1
Candidates for M.S. degree.....	7
Candidates for M.A. degree.....	15
Candidates for Ph.D. degree.....	21
	<hr/>
	55
Duplicate .....	1
	<hr/>
	54

## UNDERGRADUATE STUDENTS:

## College of Arts and Sciences:

Candidates for A.B. degree.....	136
Candidates for B.S. degree.....	4
Candidates for B.S. in Chem. degree.....	33
Special .....	106
Auditors .....	2
	<hr/>
	281

## College of Engineering and Mechanic Arts:

Candidates for B.S. in Arch. degree.....	3
Candidates for B.S. in C.E. degree.....	74
Candidates for B.S. in E.E. degree.....	31
Candidates for B.S. in M.E. degree.....	29
Special .....	39
	<hr/>
	176

## College of the Political Sciences:

Candidates for A.B. degree.....	17
Candidates for M.Dip. degree.....	8
Special .....	50
Auditors .....	2
	<hr/>
	77

## Teachers College:

Candidates for A.B. degree and Teachers' Diploma....	63
Special .....	30
	<hr/>
	93
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	681

## PROFESSIONAL DEPARTMENTS.

## DEPARTMENT OF LAW.

## First Year.

Name.	Legal residence.	City address.
Alexander, William Morrison....	D. C.....	1711 Q Street.
Atherton, Ralph Edward.....	D. C.....	Patent Office.
B.S., 1901, Worcester Polytechnic Institute.		
Barr, John Lester.....	D. C.....	The Wyoming
A.B., 1910, Harvard University.		
Berden, George Kennard.....	Mich.....	519 4th Street.
Boughton, George William.....	D. C.....	1424 K Street.
Bryant, Richmond.....	D. C.....	The Northumberland.
Buck, George Burton.....	Md.....	Census Office.
Burger, Alfred.....	Va.....	Patent Office.
Button, Herbert Lucius.....	S. D.....	Y. M. C. A.
Calley, Walter England.....	Pa.....	1438 Meridian Place.
S.B., 1903, University of Chicago.		
Campbell, Dudley A.....	Ohio.....	2036 F Street.
Cobb, Victor.....	Va.....	Patent Office.
B.S., 1908, Harvard University.		
Cohn, Mark Aurel.....	Pa.....	421 6th Street.
Cook, Stanley Ward.....	Mass.....	Jenifer Building.
M.E., 1910, Cornell University.		
Coumbe, Edward Celestine.....	Wash.....	1433 R. I. Ave.
Creekmore, Thomas Leonidas.....	Va.....	1433 R. I. Ave.
Daniel, Robert Todd.....	D. C.....	3000 Q Street.
Davis, Myron Mathews.....	Me.....	1860 Columbia Road.
S.B., 1909, Massachusetts Institute of Technology.		
Davis, Ray Osborne.....	Va.....	507 Prince Street, Alex- andria, Va.
De Baun, Claud.....	Ariz.....	1132 8th Street.
Deibert, Arthur Hannum.....	D. C.....	1411 Harvard Street.
Denning, William Ira.....	Ga.....	4127 9th Street.
Des Jardins, Clarence Bigelow.....	Mich.....	Coast & Geodetic Survey.
B.A., 1909, Kalamazoo College.		
Diener, John Astor.....	Ind.....	1626 S Street.
B.S. in E.E., 1910, Purdue University.		
Donegan, John.....	D. C.....	1912 Jackson St., N. E.
Dowdell, Thomas Joseph.....	D. C.....	233 3 Street, N. E.
B.S., 1903, Alabama Polytechnic Institute.		



Name.	Legal residence.	City address.
Dunham, Harry E.....	N. Y.....	1400 Chapin Street.
E.E., 1906, Syracuse University.		
Edinburg, Frank Peter.....	Kan.....	2224 Shannon Pl., S. E.
A.B., 1903, Bethany College.		
A.M., 1905, University of Kansas.		
Ershler, Philip.....	N. Y.....	314 East Capitol Street.
Fehr, John Ralph.....	Ill.....	Patent Office.
Feldman, Peter Royal.....	Wis.....	1378 Harvard Street.
Fiddler, Earle Thomas.....	Pa.....	1730 Q Street.
Litt.B., 1909, Princeton University.		
Finley, David Edward, Jr.....	S. C.....	155 The Portner.
B.A., 1910, University of South Carolina.		
Fitzsimmons, Embert Lewis.....	Mass.....	3463 14th Street.
Garlock, Edward Allen.....	Minn.....	1214 V Street.
B.S. in E.E., 1908, Purdue University.		
Geiman, Daniel J.....	Va.....	1824 N. H. Avenue.
Gray, James William.....	N. Y.....	33 B Street, N. W.
Grout, Ralph Cooper.....	Vt.....	Census Office.
Hanna, Forest Walker.....	Mo.....	1811 G Street.
B.A., 1909, Northwestern University.		
Harden, Fred Geer.....	Nebr.....	231 B Street, N. E.
A.B., 1907, A.M., 1908, University of Nebraska.		
Harding, Harvey Almon.....	Nebr.....	1739 Park Road.
Hare, Butler Black.....	S. C.....	715 19th Street.
A.B., 1899, Newberry College.		
M.A., 1910, The George Washington University.		
Hare, Henry Benjamin.....	S. C.....	715 19th Street.
A.B., 1909, Newberry College.		
Hawley, Luther W.....	Vt.....	Patent Office.
B.S., 1908, Worcester Polytechnic Institute.		
Heitmuller, George Roeder.....	D. C.....	1307 14th Street.
Henderson, Robert.....	D. C.....	1601 23d Street.
Graduate, 1902, United States Naval Academy.		
Hendry, Morgan Leland.....	Md.....	406 Evans Building.
Hinton, Sebastian.....	D. C.....	222 A Street, S. E.
A.B., 1909, Princeton University.		
Hubbard, Elliott S.....	N. Y.....	Gov't Printing Office.
Isom, James Rudolph.....	Ark.....	1004 11th Street.
Jackson, Edwin Roy.....	Iowa.....	Forest Service.
B.S., 1904, State University of Iowa.		
Jeffrey, Frank Rumer.....	Wash.....	1433 R. I. Avenue.
Johnson, Robert.....	Mo.....	1304 Belmont Street.
Kennedy, George Henry, Jr.....	D. C.....	Patent Office.
B.S. in M.E., 1910, University of Pennsylvania.		

Name.	Legal residence.	City address.
Kinyoun, Joseph Perry.....	D. C.....	1423 Harvard Street.
Kirley, Grover Cleveland.....	Mass.....	1623 Park Road. A.B., 1909, Amherst College.
Knowlton, Morris Willson.....	Me.....	507 Quincy Street.
Koester, Karl.....	D. C.....	2110 1st Street.
Landers, Maurice Birdsall.....	N. Y.....	1436 Meridian Place. A.B., 1903, Hamilton College. S.B., 1905, Massachusetts Institute of Technology.
Langley, Jesse Raymond.....	Okla.....	1312 Fairmont Street. B.S., 1908, University of Michigan.
Larson, William Ludwig.....	S. D.....	1700 15th Street.
Levinson, Harry De Witte.....	Mich.....	1316 L Street.
Libby, Warren Edgar.....	Me.....	1303 P Street. A.B., 1909, Bates College.
Lillie, Ray Dudley.....	Mich.....	1429 N. Y. Avenue. A.B., 1904, University of Michigan.
Lipschutz, David.....	N. Y.....	1132 7th Street.
Mapes, Carl Anthony.....	Mich.....	4 8th Street, S. E.
Moore, Maurice Malcolm.....	Mich.....	1869 Columbia Road.
Morrison, William Lester.....	Mass.....	1324 Mass. Avenue.
Moses, William Henderson.....	D. C.....	2129 Wyoming Avenue.
Newhouser, Roy Lyman Joseph.....	D. C.....	1707 21st Street. B.A., 1909, The George Washington University.
Niller, William.....	N. C.....	1476 Clifton Street.
Nooe, Bennet, 3d.....	N. C.....	1501 Park Road.
O'Brien, Francis Vincent.....	N. Y.....	145 U Street.
Otto, Arnold Clarence.....	Wis.....	1012 15th Street.
Owens, Thomas Robert.....	Ala.....	Y. M. C. A.
Paine, John Gregg.....	Pa.....	118 Adams Street. A.B., 1909, Wesleyan University.
Parke, John Thomas.....	W. Va.....	R. M. S., Union Station.
Peterson, Ernest A.....	Minn.....	1209 K Street. B.A., 1910, University of Minnesota.
Philips, Charles K.....	Pa.....	1828 13th Street. A.B., 1909, Princeton University.
Plant, Perley Hollis.....	Me.....	The Alabama. A.B., 1904, Bates College.
Platt, Roger Burchard.....	N. Y.....	814 8th Street. A.B., 1908, Cornell University.
Poppy, Edward.....	Austria.....	1412 Mass. Avenue.
Preston, Neil De Forest.....	N. Y.....	1824 California Street. M.E., 1908, Cornell University.
Rodgers, Robert Elmer.....	Texas.....	316 C Street.



Name.	Legal residence.	City address.
Rose, Claude Custer.....	Ohio.....	115 R Street, N. E.
M.E., 1905, Ohio State University.		
Samsel, Albert Charles.....	Tenn.....	417 2d Street.
B.A., 1910, Maryville College.		
Savage, Henry J.....	Mich.....	1314 Park Road.
B.S. in E.E., 1908, University of Michigan.		
Schantz, Leroy Christian.....	Iowa.....	1702 F Street.
B.S. in E.E., 1908, Iowa State College.		
Scott, James Bancroft.....	N. J.....	1730 Q Street.
B.A., 1909, Rutgers College.		
Shea, John Michael.....	Conn.....	225 B Street.
Shelton, Theodore D.....	N. C.....	474 Penna. Avenue.
Sheppard, Ronald Willmot.....	N. J.....	1839 Monroe Street.
Smith, Frank Brown.....	Md.....	Bowie, Md.
Smith, Frank Seymour.....	D. C.....	1631 16th Street.
B.A., 1910, Wesleyan University.		
Stone, James Austin.....	D. C.....	1618 R. I. Avenue.
B.A., 1910, Swarthmore College.		
Straw, Charles Alonzo, Jr.....	Mass.....	3014 Dent Place.
A.B., 1901, Harvard University.		
Strong, William, Jr.....	D. C.....	1208 18th Street.
Stuart, Henry Clifford.....	D. C.....	1728 Conn. Avenue.
Stuart, Ralph Richard.....	Iowa.....	332 Md. Avenue, N. E.
Terney, Ewald William.....	D. C.....	336 Adams Street, N. E.
Thomson, Julius Faison.....	N. C.....	1100 Vermont Avenue.
A.B., 1909, University of North Carolina.		
Tolbert, James Ora.....	Iowa.....	210 Y. M. C. A.
Tonne, Franklin Deitrich.....	Minn.....	1221 O Street.
Walker, Clarence Stevens.....	Mass.....	1200 East Capitol Street.
A.B., 1904, Harvard University.		
Waters, Joseph Henry.....	D. C.....	3227 11th Street.
B.S. in E.E., 1910, The George Washington University.		
Wenderoth, Ernest Ferdinand....	N. Y.....	Patent Office.
B.S. in E.E., 1910, The George Washington University.		
White, Hubert Shadrach.....	Va.....	1128 6th Street.
Wilson, Irving Thomas.....	Md.....	Nat'l Sav. & Trust Co.
Woodman, William Hidden.....	N. J.....	1933 Calvert Street.
B.S., 1908, Dartmouth College.		
Young, Earl.....	Minn.....	1737 F Street.
Young, George William.....	D. C.....	1356 Irving Street.
Zacharias, Robert Mathias.....	Pa.....	1717 S Street.
A.B., 1907, Franklin and Marshall College.		

## Second Year.

Name.	Legal residence.	City address.
Applebaum, Aaron Eleazar.....	N. J.....	1232 14th Street.
Appling, Richard Norton.....	Mo.....	31 B Street, N. W.
Baldwin, Asa Columbus.....	Ohio.....	135 A Street, N. E.
A.B., 1908, Western Reserve University.		
Barber, Azro Lucien.....	N. Y.....	1433 R. I. Avenue.
A.B., 1907, Syracuse University.		
Bickel, Harvey Cleveland.....	Pa.....	1318 12th Street.
Bond, Eugene Webster.....	Ill.....	902 F Street.
Briscoe, Lawrence Morton.....	Md.....	1213 Conn. Avenue.
Brookes, John St. Clair, Jr.....	D. C.....	1525 Corcoran Street.
B.A., 1907. M.A., 1910, The George Washington University.		
Burson, Edgar Ferrall.....	Kans.....	1334 B Street, S. E.
Coulson, Robert Earl.....	N. Y.....	1422 Belmont Street.
A.B., 1909, Cornell University.		
Cox, John Dee.....	Texas.....	4300 Kansas Ave.
Davis, Max Warburton.....	Conn.....	1717 S Street, N. W.
M.E., 1908, Cornell University.		
Davis, William Edward.....	Md.....	506 Evans Building.
A.B., 1907, Western Maryland College.		
Denman, Charles Arthur.....	Neb.....	604 C Street, N. E.
De Wolf, Richard Crosby.....	Mass.....	Library of Congress.
Du Bois, Henry Pastor.....	Pa.....	1421 Chapin Street.
M.E., 1907, Cornell University.		
Dulles, John Foster.....	N. Y.....	1323 18th Street.
A.B., 1908, Princeton University.		
Dunlop, Walter Grafton.....	D. C.....	The Cordova.
B.S., 1909, Princeton University.		
Eickhoff, Theodore Henry.....	Ind.....	1522 16th Street.
B.S. in E.E., 1908, Purdue University.		
Foote, Morris Cooper.....	D. C.....	16 5th Street, S. E.
Galleher, Parke Ashby.....	D. C.....	116 3d Street, N. E.
Gamble, Ralph Abernethy.....	S. D.....	The Portland.
Litt.B., 1909, Princeton University.		
Gerard, Charles Wesley.....	D. C.....	2212 Flagler Place.
A.B., 1906, Ohio State University.		
Glover, Charles Carroll, Jr.....	D. C.....	1703 K Street.
B.A., 1910, Yale University.		
Gordon, Spencer.....	D. C.....	3028 Q Street.
A.B., 1909, Princeton University.		
Guptill, Leon Clifton.....	Me.....	23 1st Street, N. E.
B.A., 1909, Colby College.		



Name.	Legal residence.	City address.
Hawley, Charles Taft.....	Mass.....	6914 5th Street, Takoma Park, D. C.
B.S., 1898, M.E., 1908, Worcester Polytechnic Institute.		
Helms, Birch.....	Pa.....	618 Colorado Building.
A.B., 1909, Yale University.		
Herman, Morris D.....	Minn.....	1115 6th Street, N. W.
Hoover, Joseph Raymond.....	D. C.....	1118 9th Street.
Houston, William Cannon, Jr.....	Tenn.....	302 H. R. Office Bldg.
Hudson, Douglas Granville.....	Kans.....	1843 Vernon Street.
Humason, Harris Monroe.....	Conn.....	1445 Mass. Avenue.
A.B., 1909, Yale University.		
Hunter, Orren Franklin.....	S. C.....	1537 Monroe Street.
B.S., 1894, South Carolina Military Academy.		
Jensen, Earl Ephraim.....	Utah.....	431 Mass. Avenue.
Kause, Arthur John.....	D. C.....	1905 Jackson St., N. E.
Klise, Bernard Shippey.....	Mich.....	1933 Calvert Street.
Kunkel, Frederick Eugene.....	Pa.....	1717 S Street.
Lamb, William Ers.....	D. C.....	1322 I Street.
B.S., 1909, Dartmouth College.		
Lazarus, I. Burt.....	Mass.....	621 19th Street.
Lindeman, Clarence Albert.....	Cal.....	1226 11th Street.
Macfarland, Horace Greely.....	D. C.....	1727 F Street.
Graduate, 1891, United States Naval Academy.		
McKibbin, George Baldwin.....	Iowa.....	113 H. R. Office Bldg.
A.B., 1909, Iowa Wesleyan College.		
Manning, George Madison Adams.....	Ky.....	1101 14th Street.
Miller, Lawrence Arnold Gale.....	Mass.....	Patent Office.
A.B., 1908, Harvard University.		
Moakley, Harry Joseph.....	Conn.....	1860 Columbia Road.
Ph.B., 1908, Yale University.		
Momsen, Richard Paul.....	Wis.....	371 H. R. Office Bldg.
Moore, Josiah Arthur.....	Ill.....	1100 Vt. Avenue, N. W.
B.S., 1907, The James Milliken University.		
Moore, James Ballard.....	D. C.....	1869 Columbia Road.
Moore, Rawles.....	Ky.....	Treasury Department.
Munden, Ralph.....	Pa.....	Patent Office.
M.E., 1906, Cornell University.		
Nairn, William Wallace, Jr.....	D. C.....	901 Lawrence St., N. E.
Nixon, Cleon Robert.....	Ill.....	209 A Street, S. E.
B.S., 1909, Shurtleff College.		
Ogilby, Charles Fitz Randolph, Jr.....	D. C.....	1416 F Street.
Oren, James Paul.....	Pa.....	Y. M. C. A.
Packard, Roscoe Milliken.....	D. C.....	Patent Office.
A.B., 1899, M.A., 1900, Western Reserve University.		

## STUDENTS IN THE UNIVERSITY.

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Name.	Legal residence.	City address.
Peck, George Curtis Stanley.....	D. C.....	Ways and Means Committee, H. R.
Richardson, Madison.....	S. C.....	514 East Capitol Street. B.A., 1909, Wofford College.
Rush, Clifford Alvin.....	Kans.....	Y. M. C. A.
Scanlon, Tom.....	S. D.....	1700 15th Street.
Scheffer, Joseph Walter.....	Conn.....	2124 Penna. Avenue.
Schnare, Lester Llewellyn.....	Ga.....	Y. M. C. A.
Schreiber, Ernst Otto, Jr.....	D. C.....	642 E Street, N. E. B.A., 1910, The George Washington University.
Shaw, Paul James.....	Pa.....	1826 G Street.
Sheppard, Carl Dunkle.....	Ohio.....	Florence Court. Ph.B., 1902, Ohio University.
Smith, Charles Watson.....	Pa.....	1115 9th Street.
Smith, St. Clair.....	S. D.....	1700 15th Street.
Spessard, Walter Valentine.....	Pa.....	457 M Street. B.A., 1909, Lebanon Valley College.
Stinchfield, Ray Lewis.....	Mass.....	Patent Office. B.S., Worcester Polytechnic Institute.
Stubblefield, Simon Peter.....	Miss.....	1400 Chapin Street. B.S., 1908, University of Mississippi.
Sutton, Loyd Hall.....	Mass.....	The Majestic, Euclid St. S.B., 1908, Massachusetts Institute of Technology.
Townsend, Wilson Lewis.....	Md.....	Kensington, Md.
Watkins, Elton.....	D. C.....	1008 10th Street. A.B., 1910, Washington and Lee University.
White, Richard Franklin.....	La.....	67 The Brunswick. A.B., 1910, The Tulane University of Louisiana.
Zeh, Henry William.....	D. C.....	1357 Harvard Street.

## Third Year.

Andersen, Charles.....	Texas.....	216 North Capitol Street.
Baer, David Alphonse.....	D. C.....	1860 Columbia Road. B.A., 1910, The George Washington University.
Baldwin, Edward Damon.....	Ore.....	204 H. R. Office Bldg. B.Lit., 1906, Whitman College. M.A., 1909, The George Washington University.
Beneman, George.....	Md.....	1336 7th Street.
Berry, James William.....	D. C.....	14 3d Street, S. E. B.A., 1909, The George Washington University.
Bullion, Clarence Leroy.....	Ohio.....	1328 8th Street.
Burns, Walter William.....	N. Y.....	518 Shepherd Street. M.E., 1906, Cornell University.



Name.	Legal residence.	City address.
Butler, Comfort Straight.....	Ill.....	The Cumberland.
A.B., 1909, University of Illinois.		
Byrn, Edward Wright, Jr.....	Md.....	Silver Spring, Md.
Callister, Edward Richard.....	Utah.....	215 Senate Office Bldg.
Carpenter, John Conduct.....	D. C.....	1318 Vermont Avenue.
M.E., 1908, Cornell University.		
Cox, Henry Aubrey.....	Tenn.....	1433 R. I. Avenue.
Curl, Joseph Ryland.....	D. C.....	New Masonic Temple.
B.S., 1909, The George Washington University.		
Disque, William Alfred.....	Ky.....	Y. M. C. A.
Dodge, Parker Van Patten.....	D. C.....	134 B Street, N. E.
S.B., 1907, Massachusetts Institute of Technology.		
Dutton, Clarence Benjamin.....	Mass.....	1209 Emerson Street.
Faison, Paul Fletcher.....	N. C.....	1915 H Street.
Farmer, Matthew Singleton, Jr.....	N. C.....	154 A Street, N. E.
Fenwick, Frank Knox.....	Mo.....	1443 Mass. Avenue.
Fischer, Stanley Herman.....	D. C.....	1724 Lanier Place.
Foo, Hsen Shuen.....	China.....	Chinese Legation.
A.B., 1906, The Ching Chong School.		
Fraser, William Wright.....	Md.....	Patent Office.
A.B., 1905, New Windsor College.		
Gerhart, Herbert Benjamin.....	Pa.....	918 23d Street.
Gill, Walter Josiah, Jr.....	Mass.....	Patent Office.
S.B., 1904, Massachusetts Institute of Technology.		
Goode, Philip Burwell.....	D. C.....	Patent Office.
A.B., 1907, Harvard University.		
Gray, Jay Lyman.....	Me.....	320 Md. Avenue, N. E.
A.B., 1908, Bowdoin College.		
Herriott, David Paul.....	Pa.....	1700 15th Street.
A.B., 1905, Washington and Jefferson College.		
Hilton, Charles Vanderbilt.....	Md.....	3264 N Street.
Hoover, Frank Willard.....	D. C.....	1824 16th Street.
Hynson, Richard Washburn.....	D. C.....	1335 N Street.
Kemper, Edward Crawford.....	Va.....	1933 Calvert Street.
Koeppler, John Louis.....	Wis.....	Takoma Park, D. C.
Lilly, Scott Henry.....	Iowa.....	4122 7th Street.
B.A., 1897, Cornell College.		
Linnell, William Shepherd.....	Me.....	320 Md. Avenue, N. E.
A.B., 1907, Bowdoin College.		
Long, Franklin Samuel.....	Ill.....	2206 Flagler Place.
Mathews, Roy Lee.....	Minn.....	1700 15th Street.
Mechlin, Ernest Frederick.....	D. C.....	Patent Office.
B.S., 1907, The George Washington University.		

Name.	Legal residence.	City address.
Miller, Herman.....	Neb.....	Patent Office.
B.S., 1898, Nebraska Wesleyan University.		
Moyer, Samuel.....	Pa.....	323 W Street, N. E.
Myers, John Dashiell.....	D. C.....	1634 Riggs Place.
Neal, Franklin Gilman.....	Mass.....	3141 Mt. Pleasant St.
Ph.B., 1908, Yale University.		
Nettleton, Leigh Lanman.....	Utah.....	918 23d Street.
Nicholson, Soterios.....	Greece.....	1801 G Street.
Oberlin, John Jay.....	Md.....	Patent Office.
A.B., 1901, Washington and Lee University.		
Owen, Richard Blakelock.....	D. C.....	Warder Building.
Palais, Maurice.....	Mass.....	111 Md. Avenue, N. E.
Pease, Ferdinand Henry.....	Vt.....	1424 K Street.
B.A., 1907, University of Vermont.		
Place, Ernest Frederic.....	N. Y.....	H. R. Office Building.
Rowland, Guy Edwin.....	Texas.....	Chevy Chase, Md.
Seiler, Justin Frank.....	Ohio.....	American Univ. Park.
B.A., 1908, M.A., 1910, The George Washington University.		
Smith, Jesse Bond.....	D. C.....	101 Chestnut Street, Ta-
		koma Park, D. C.
Spencer, Thomas Peachy.....	Va.....	1408 M Street.
A.B., 1905, William and Mary College.		
Tilton, Rufus Harold.....	Mass.....	220 2d Street, N. E.
Ph.B., 1908, Wesleyan University.		
Walker, John Earl.....	Mich.....	1012 15th Street.
B.S., 1907, Kalamazoo College.		
B.S., 1907, University of Chicago.		
Wann, Eugene Charles.....	D. C.....	144 F Street, S. E.
Warden, Franklin Milton.....	Ill.....	Care Sergeant-at-Arms,
		House of Rep.
Webber, Lane Davis.....	Ind.....	905 13th Street.
Wyatt, Hardee.....	N. M.....	1225 F Street.
B.S., 1897, National Normal University.		
L.I., 1900, University of Nashville.		
B.A., 1901, Southern Normal University.		
Zirkle, Joseph Claiborne.....	Va.....	635 F Street.

## Fourth Year.

Babcock, Richard Earle.....	D. C.....	707 G Street.
Blount, Walter Eames.....	D. C.....	3101 R Street.
Bradley, Paul Earl.....	Ill.....	Y. M. C. A.
Calvert, John Wentworth.....	Md.....	1750 Corcoran Street.
Cohen, A. Lapin.....	Wis.....	1322 Vermont Avenue.



Name.	Legal residence.	City address.
Dahn, Franz Frederick William...	Minn.....	1433 R. I. Avenue.
B.S., 1909, The George Washington University.		
Dodson, James Dunbar.....	D. C.....	1714 F Street.
Everett, Frank Orear.....	Mo.....	922 14th Street.
B.A., 1909, The George Washington University.		
Faulkner, William Ernest.....	Ky.....	7 S Street.
B.A., 1907, Union College.		
Garrett, George Everett.....	Va.....	Patent Office.
Grover, William Robinson.....	Mich.....	1012 15th Street.
Ph.B., 1907, Kalamazoo College.		
Hellen, Arthur.....	D. C.....	1731 20th Street.
Hill, Hermon Henry.....	Mass.....	143 R. I. Avenue.
A.B., 1907, Dartmouth College.		
Le Duc, Louis Bronson.....	D. C.....	1403 21st Street.
Mackenzie, Robert Lundie.....	Ore.....	807 11th Street.
McCray, Claud Henry.....	N. Y.....	930 18th Street.
B.S., 1907, Hobart College.		
Paddock, William Waterman....	Iowa.....	205 The Sherman.
Patterson, Matthew Wares.....	Ark.....	Dept. of Agriculture.
Pillow, Gideon Johnston.....	Ia.....	1464 Clifton Street.
Smith, Conger Ryder.....	Mich.....	Y. M. C. A.
Smith, Thomas William.....	Idaho.....	Y. M. C. A.
Swan, Arthur Rogers.....	Va.....	Clarendon, Va.
Thompson, Oscar.....	Wis.....	1227 15th Street.
Van Vleck, William Cabell.....	D. C.....	719 Quincy Street.
B.A., 1908, The George Washington University.		
White, Herbert William.....	Iowa.....	1700 15th Street.
Ph.B., 1907, Simpson College.		
Wilmeth, Warner Lambeth.....	Texas.....	14 Grant Place.

## Master of Laws.

Barrick, Henry Llewellyn.....	Neb.....	1236 11th Street.
LL.B., 1910, The George Washington University.		
Black, Charles Frederick.....	Vt.....	The Cumberland.
Ph.B., 1907, University of Vermont.		
LL.B., 1910, The George Washington University.		
Hampton, Wade Bruce.....	N. C.....	3625 Lowell Street.
B.A., 1909, M.A., 1910, LL.B., 1910, Wake Forest College.		
Harding, Lee Robert.....	Iowa.....	305 M Street.
LL.B., 1907, The George Washington University.		
Miller, Albert Elias.....	Mich.....	1103 6th Street.
LL.B., 1905, State University of Iowa.		

Name.	Legal residence.	City address.
Patterson, Charles Herman.....	N. Y.....	1732 16th Street.
Graduate, 1903, United States Military Academy.		
LL.B., 1909, New York Law School.		
Stevenson, John McAllister, Jr....	Texas.....	The Benedict.
A.B., 1903, Yale University.		
LL.B., 1910, University of Texas.		

## Master of Patent Law.

Adams, Edgar Whittington.....	Ill.....	1126 Columbia Road.
B.S. in E.E., 1908, Armour Institute of Technology.		
LL.B., 1910, National University Law School.		
Adams, Ira James.....	Kans.....	622 Irving Street.
B.S., 1906, University of Kansas.		
LL.B., 1910, National University Law School.		
Aveilhé, Lilian Brock.....	D. C.....	900 F Street.
LL.B., 1905, Washington College of Law.		
Babcock, Richard Earle.....	D. C.....	707 G Street.
Bean, George Tinny.....	D. C.....	Patent Office.
LL.B., 1910, National University Law School.		
Boyle, John, Jr.....	Mass.....	1369 East Capitol Street.
S.B., 1901, Massachusetts Institute of Technology.		
Brannigan, Robert Alan.....	D. C.....	1748 M Street.
Braserton, Chester Harmon.....	Ill.....	Patent Office.
B.S., 1904, Valparaiso University.		
Campbell, Jesse Miller.....	Mo.....	Patent Office.
D.D.S., 1888, National University.		
LL.B., 1910, Washington College of Law.		
Church, Melville Durant.....	D. C.....	1608 20th Street.
Cohen, Nathan.....	Minn.....	617 K Street.
E.E., 1906, University of Minnesota.		
LL.B., 1910, Georgetown University.		
Draper, Anne Elizabeth.....	N. Y.....	1330 Vermont Avenue.
LL.B., 1908, Washington College of Law.		
Evans, Elizabeth Tyler.....	D. C.....	1503 Q Street.
LL.B., 1908, Washington College of Law.		
Fravel, F. Russell.....	Mass.....	1016 15th Street.
LL.B., 1908, The George Washington University.		
Gammons, Herman Trafton.....	D. C.....	414 Shepherd Street.
S.B., 1906, Massachusetts Institute of Technology.		
LL.B., 1908, LL.M., 1909, National University Law School.		
Gourley, George F.....	Md.....	3542 11th Street.
LL.B., 1909, LL.M., 1910, National University Law School.		
Harris, Joseph.....	Mass.....	Patent Office.
LL.B., 1910, Washington College of Law.		



Name.	Legal residence.	City address.
Hellman, Carl A.....	Ill.....	Patent Office. B.S., 1906, M.S., 1909, University of Illinois. LL.B., 1910, National University Law School.
Kent, Sophie Bishop.....	R. I.....	834 13th Street. LL.B., 1907, LL.M., 1908, Washington College of Law.
Kimmel, George Peter.....	Kans.....	705 Mt. Vernon Place. LL.B., 1910, Georgetown University.
Kingsbury, Harold Avery.....	D. C.....	Patent Office. LL.B., 1910, National University Law School.
May, Edgar Hale.....	D. C.....	17 Quarry Road. LL.B., 1895, LL.M., 1896, Columbian University.
Porter, Floyd John.....	N. Y.....	Y. M. C. A. LL.B., 1909, LL.M., 1910, National University Law School.
Sargent, Lester Lyman.....	Mass.....	718 12th Street. LL.B., 1910, Georgetown University.
Stevenson, John McAllister, Jr....	Texas.....	The Benedict. A.B., 1903, Yale University. LL.B., 1910, University of Texas.
White, Frederick Howard.....	Minn.....	1130 12th Street. LL.B., 1909, Washington College of Law.
Williams, La Mont Abner.....	D. C.....	The Cadiz. LL.B., 1901, State University of Iowa.

## Special, Patent Law.

Burgess, Newton Albert.....	Ala.....	3113 11th Street. B.S. in E.E., Alabama Polytechnic Institute.
Dahn, Franz Frederick William...	Minn.....	1433 R. I. Avenue. B.S., 1909, The George Washington University.
Garrett, George Everett.....	Va.....	Patent Office.
Low, Theodore Henry.....	Conn.....	1909 N Street.
Quirollo, Lawrence Henry.....	D. C.....	2031 P Street.
Stinchfield, Ray Lewis.....	Mass.....	Patent Office. B.S., Worcester Polytechnic Institute.

## Special.

Baldwin, Elmer Ira.....	D. C.....	617 C Street, S. E. LL.B., 1897, Northern Illinois College of Law.
Behrmann, Carl Martin.....	Ill.....	Y. M. C. A.
Buckingham, Richard Thomas....	D. C.....	1525 29th Street.
Corey, Ernest Maynard.....	N. Y.....	Y. M. C. A.
Culbertson, William Smith.....	Kans.....	2957 Newark Street. A.B., 1907, College of Emporia. A.B., 1908, Yale University.

Name.	Legal residence.	City address.
Dow, William John.....	Mo.....	2020 N. Capitol Street.
Farmer, James Price.....	D. C.....	154 A Street, N. E.
Forbes, Harvey Dwight.....	N. Y.....	2955 Tilden Street.
Grinager, Lars Jacob.....	S. D.....	1734 Penna. Avenue.
Handy, Elias Hurst.....	D. C.....	643 Mass. Avenue, N. E.
Jensen, William Critchlow.....	Utah.....	431 Mass. Avenue.
Kemmerer, Charles Tilghman.....	Iowa.....	1115 8th Street.
Ph.B., 1903, State University of Iowa.		
LL.B., 1905, University of Michigan.		
Kimmel, George Peter.....	Kans.....	705 Mt. Vernon Place.
LL.B., 1910, Georgetown University.		
Lerch, John George.....	D. C.....	1520 M Street.
McBlair, Robert.....	Va.....	912 Munsey Building.
Murdock, George Norman.....	Ore.....	1103 6th Street.
LL.B., 1910, Willamette College of Law.		
Offutt, Hilleary Lyles, Jr.....	Md.....	Kensington, Md.
Rust, Breckinridge Cabell.....	D. C.....	McGill Building.
Saum, Hugh Harris.....	D. C.....	207 Florence Court.
Scott, Foster Clyde.....	Ill.....	4 8th Street, S. E.
Se Legue, Charles Albert.....	Ind.....	1400 Chapin Street.
LL.B., 1909, Georgetown University.		
Shawn, Franklin Denwood.....	Pa.....	1419 Chapin Street.
Sinclair, Beverly Kennon.....	Va.....	Care W. B. Hibbs & Co.
Smith, George Walter.....	Pa.....	Y. M. C. A.
Spencer, William Boyd.....	Pa.....	1103 6th Street.
Stottle, Burr Shearer.....	Mo.....	1024 17th Street.
Watson, Paul Herbert.....	Kans.....	1322 Kearney St., Brook- land, D. C.
Willis, George Bullock.....	Va.....	R. F. D. No. 3, Alexan- dria, Va.
Wilmer, Joseph Allison.....	Md.....	3117 N Street.
Winkelhaus, William August.....	Ill.....	4226 8th Street.

## Review.

Gallagher, Laurence Joseph.....	N. Y.....	Patent Office.
B.E., 1903, Union College.		
LL.B., 1909, Georgetown University.		
M.P.L., 1910, The George Washington University.		
Holmes, Rexford Louis.....	Mo.....	1114 D Street, N. E.
LL.B., 1908, LL.M., 1910, The George Washington University.		
James, Charles Grant.....	Ohio.....	1449 Fairmont Street.
LL.B., 1905, The George Washington University.		



Name.	Legal residence.	City address.
Moor, Noble.....	D. C.....	Treasury Department. LL.B., 1896, LL.M., 1897, Columbian University.
Sanders, Franklin Oliver.....	Pa.....	1354 Otis Place. LL.B., 1906, LL.M., 1907, The George Washington University.
Sunderlin, Louis Kossuth.....	Iowa.....	941 M Street. LL.B., 1908, The George Washington University.
Waterman, Jason.....	Mich.....	1807 3d Street, N. E. LL.B., 1903, Columbian University.

## Summary.

## CANDIDATES FOR LL.B. DEGREE:

First year.....	112
Second year.....	75
Third year.....	59
Fourth year.....	26

CANDIDATES FOR LL.M. DEGREE..... 7

CANDIDATES FOR M.P.L. DEGREE..... 27

SPECIAL, PATENT LAW..... 6

SPECIAL ..... 30

REVIEW ..... 7

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DUPLICATES ..... 6

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## DEPARTMENT OF MEDICINE.

## Doctor of Medicine.

## First Year.

Name.	Legal residence.	City address.
Baldus, Aloysius A.....	D. C.....	1236 Quincy Street, Brookland, D. C.
Barger, Gervase J. P.....	D. C.....	1335 Mass. Ave., S. E.
Beals, Frank Lee.....	D. C.....	Kenesaw Apts.
Bloom, Rudolph.....	Va.....	308 7th Street, S. W.
Bolton, Boyce Richardson.....	D. C.....	3104 P Street.
Bush, Andrew Pleasant.....	W. Va.....	1325 H Street.
Clar, Benjamin.....	Russia.....	914 P Street.
Fellers, Ray Leopold.....	Mich.....	1000 M Street.

## STUDENTS IN THE UNIVERSITY.

251

Name.	Legal residence.	City address.
Field, Fay.....	Pa.....	128 C Street, S. E.
Harrison, Forrest Martin.....	Va.....	1215 K Street
Jova, Andres Martin.....	Cuba.....	512 10th Street.
Lowenstam, Sigmund.....	N. H.....	602 Mass. Ave.
McArdle, J. Ford Thompson.....	D. C.....	1826 Columbia Road.
Miller, Thomas, Jr.....	D. C.....	1616 7th Street.
Newbold, Thomas P.....	D. C.....	302 11th Street, S. W.
Passer, William Frederick.....	Minn.....	918 23d Street.
Ph.C., 1904, University of Minnesota.		
Payne, John Welford.....	D. C.....	R. F. D. No. 5, Congress Heights, D.C.
Peters, David B.....	Va.....	Govt. Hosp. for Insane.
Phar.D., 1910, The George Washington University.		
Petrolas, George A.....	Greece.....	601 Louisiana Ave.
Porter, Charles Wallace.....	Ohio.....	806 10th Street.
Schurgot, James Adair.....	Pa.....	1340 New York Ave.
Supplee, Eugene Deyerle.....	Va.....	311 A Street, N. E.
Sze, Tsannyoen Philip.....	China.....	38th & Joselyn Streets.
Taylor, Chase.....	D. C.....	1433 Belmont Street.
Walton, Robert Ralph.....	Wash.....	918 23d Street.

## Second Year.

Abaza, Sulieman Hussain.....	Egypt.....	1426 9th Street.
Boyd, Francis Marion.....	Kans.....	1325 H Street.
Cohen, Ralph.....	D. C.....	618 D Street.
Dembrosky, William Louis.....	Russia.....	708 H Street, N. E.
Dougherty, Bernard Joseph.....	Minn.....	1335 H Street.
English, Leonard Harrison.....	Pa.....	128 C Street, S. E.
English, Merton Alden.....	Pa.....	1758 Park Road.
Fortier, Roy McLeay.....	Cal.....	2310 19th Street.
Henneberger, Josiah Baker.....	Md.....	607 M Street.
Riley, Albert Austin.....	Ohio.....	1375 Columbia Road.
Shea, George Marvin Waite.....	Conn.....	1502 P Street.
Stallings, Clara Laing.....	Md.....	1317 13th Street.
Stout, Joseph Duerson.....	D. C.....	1426 9th Street.
A.B., 1910, The George Washington University.		
Travis, John Randolph.....	Va.....	1319 Vermont Ave.

## Third Year.

Bailey, William Otis.....	S. C.....	1217 N Street.
Borden, Daniel LeRoy.....	D. C.....	1801 California Street.
Bricker, Sacks.....	D. C.....	200 15th Street, S. E.
Calver, George Welnes.....	D. C.....	207 A Street, S. E.



Name.	Legal residence.	City address.
Castell, Louis Bernard.....	D. C.....	1132 6th Street.
Corbett, Sewall Munson.....	Va.....	1700 15th Street.
Cram, Albert Monroe.....	Vt.....	1611 13th Street.
Eckhardt, John Carl.....	D. C.....	1140 18th Street.
Fitz-Hugh, William DeHardt....	Va.....	Sibley Hospital.
Gray, Augustus Clagett.....	Md.....	1335 H Street.
Hall, Custis Lee.....	D. C.....	1408 Chapin Street.
Hunter, Oscar Benwood.....	Va.....	1305 22d Street.
Kane, Howard Francis.....	Me. ....	1229 15th Street.
A.B., 1909, Bowdoin College.		
Knott, Charles O.....	Va.....	1006 I Street, S. E.
LaGrade, Louis Anatole, Jr.....	D. C.....	2624 Woodley Place.
Landis, Charles Caldwell.....	Cal.....	1611 13th Street.
Luckett, George Sparr.....	Va.....	1340 New York Ave.
A.B., 1907, Wooster University.		
Milbourn, Frank Washington....	Va.....	Garfield Memorial Hosp.
Mooers, Harold Alonzo.....	D. C.....	Takoma Park, D. C.
Pagan, Albert Elwood.....	D. C.....	1965 Biltmore Street.
Read, Boyd Richard.....	D. C.....	1819 N. Capitol Street.
Rollings, John Adolph.....	W. Va.....	1143 22d Street.
Scarito, Nicholas Julius.....	D. C.....	1200 S Street.
Schaub, Gustavus Adolphus.....	Tex.....	1229 15th Street.
Sloat, Jesse Irving.....	D. C.....	23 1st Street, N. E.

## Fourth Year, Five-Year Course.

Brewer, Gilbert Roscoe.....	Ill.....	2439 N Street.
Burnett, Roy Edgar.....	Okla.....	1307 R Street.
Dyer, John Christopher.....	Ohio.....	1225 B Street, N. E.
Ellison, Everett Monroe.....	Tenn.....	Y. M. C. A.
A.B., 1901, A.M., 1903, Grant University.		
Fisher, Charles A.....	Pa.....	1307 R Street.
Hunt, Isaac Burton.....	Tenn.....	1223 12th Street.
Leonard, George Ferree.....	N. C.....	1220 N Street.
A.B., 1907, University of North Carolina.		
Martin, Aaron Wise.....	Va.....	1833 K Street.
Pitt, Richard V.....	Va.....	Mt. Vernon Apts.
Ralph, Charles Edward.....	Ill.....	406 11th Street, N. E.
Read, Effie Alberta.....	Mass.....	Apt. 66, The Brunswick.
Ph.D., 1907, Cornell University.		

## Fourth Year.

Arneson, Arne O.....	Minn.....	929 H Street.
Baum, Ewald George.....	Wis.....	Children's Hospital.

## STUDENTS IN THE UNIVERSITY.

253

Name.	Legal residence.	City address.
Brock, Charles LeRoy.....	D. C.....	1335 H Street.
Castleman, Philip.....	Mass.....	1232 14th Street.
B.S., 1906, Harvard University.		
Cox, Oliver Clemence.....	W. Va.....	1320 11th Street.
Cruz, Adriano Talbos.....	P. I.....	806½ I Street.
Davidian, Hagop.....	Asia Minor.	817 12th Street.
Downey, Alice Winans.....	D. C.....	2473 18th Street.
Eisenberg, Arthur Alexander.....	D. C.....	1213 4½ Street, S. W.
A.B., 1910, The George Washington University.		
Eppard, George Irving.....	Va.....	1921 G Street.
Goss, Audrey.....	D. C.....	1443 Mass. Ave.
Hayton, Charles Henry.....	D. C.....	Emergency Hospital.
A.B., 1910, The George Washington University.		
Irmen, Felix Arnold.....	D. C.....	Tuberculosis Hospital.
Jaeger, Henry William.....	D. C.....	15 4th Street, S. E.
McMillan, Walter Alexis.....	D. C.....	1317 F Street.
Mitsuyoshi, Fujio.....	Japan.....	1236 13th Street.
Molzahn, Albert John.....	Nebr.....	Sibley Hospital.
Oliver, Harry Waterhouse.....	N. D.....	Garfield Hospital.
Paige, Wendell Arthur Heath....	Vt.....	1365 E. Capitol Street.
Smith, Arthur C.....	N. Y.....	925 12th Street.
Williams, Robert Cleveland.....	N. C.....	2517 14th Street.
A.B., 1907, University of North Carolina.		
Williams, Timothy Graham.....	N. C.....	2517 14th Street.
Zimmerman, Carl George.....	N. Y.....	925 12th Street.

## Summary.

## CANDIDATES FOR THE DEGREE OF M.D.:

First year.....	25
Second year.....	14
Third year.....	25
Fourth year.....	34
	<hr/>
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## DEPARTMENT OF DENTISTRY.

## First Year.

Name.	Legal residence.	City address.
Alley, Edward Crawford.....	Ky.....	1710 F Street.
Achsan, Samuel Charles.....	N. Y.....	402 M Street.
Briggs, Elmer Ely.....	Pa.....	1419 Ames Street, N. E.
Durfee, Claude.....	Ill.....	3501 14th Street.
Eisenstein, Nathan.....	D. C.....	825 Vermont Ave.
Fowler, Lawrence Jay.....	Kans.....	128 W Street.
Fansler, Orville Newton.....	Md.....	Agricultural Dept.
Glenn, Arthur H.....	D. C.....	16 Q Street.
Hardester, John S.....	D. C.....	314 E. Capitol Street.
Hogan, Arnold Wilbur.....	D. C.....	929 G Street.
Hooper, Vernon V.....	N. C.....	474 Penna. Ave.
Keeler, Elie Crist.....	Pa.....	224 11th Street, S. E.
Marstella, John Preston.....	Ill.....	3606 13th Street.
Madert, George William.....	D. C.....	1322 Kenyon Street.
Maphis, Carl Burdette.....	W. Va.....	829 Randolph Street.
Robertson, John P.....	Nebr.....	1321 Irving Street.
Phifer, Allie Glenn.....	N. C.....	637 E. Capitol Street.
Rich, Charles W.....	Pa.....	1006 K Street, N. E.
Stoddard, Charles Judson.....	D. C.....	2721 13th Street.
Smith, Robert Hamilton.....	D. C.....	1746 Kalorama Road.
Simonton, Coleman Porter.....	W. Va.....	53 K Street.
Silliman, Walter Brittin.....	Pa.....	915 New York Ave.
Williams, Edward.....	N. Y.....	3025 11th Street.

## Second Year.

Angelo, Stuart Miller.....	D. C.....	124 Seaton Street.
Bingman, Harry.....	Pa.....	617 Morris Street, N. E.
Bingham, Gustavus A.....	N. C.....	14 Eye Street, N. E.
Camalier, Caleb Willard.....	D. C.....	28 Quincy Place, N. E.
Fowler, Robert Clinton.....	D. C.....	710 10th Street, S. E.
Michaels, M. Manly.....	D. C.....	624 G Street, N. E.
Rubira, A. Alfredo.....	Ecuador.....	800 11th Street.
Spillan, Henry Merle.....	N. Y.....	728 13th Street.
White, George Elwood.....	Mass.....	323 E. Capitol Street.
Zepp, W. Clarence.....	N. J.....	C/o Ogram's Drug Store.

## STUDENTS IN THE UNIVERSITY.

255

## Third Year.

Name.	Legal residence.	City address.
Aronson, Richard.....	N. Y.....	715 M Street.
Beers, Lloyd Yohe.....	Pa.....	3125 14th Street.
McCausland, John McGirk.....	Pa.....	1506 Caroline Street.
Levin, David.....	D. C.....	1013 Linden Ave., Baltimore, Md.
Sandoval, Domiciano J.....	P. I.....	941 New York Ave.
Stone, Eugene Roger.....	Wis.....	1829 G Street.
Wood, Homer Ernest.....	D. C.....	212 4th Street, N. E.

## Summary.

## CANDIDATES FOR THE DEGREE OF D.D.S.:

First year.....	23
Second year.....	10
Third year.....	7
	<hr/> 40

## NATIONAL COLLEGE OF PHARMACY.

## Freshman Class.

Name.	Legal residence.	City address.
Boyd, William A.....	D. C.....	2901 Georgia Ave.
Buchanan, G. Clyde.....	N. C.....	214 14½ Street, N. E.
Brockman, E. Cecil.....	Va.....	1012 B Street, N. E.
Barnes, Forrest P.....	Ohio.....	708 Mass. Ave., N. E.
Chamblin, Ralph V.....	Va.....	Herndon, Va.
Clar, Benjamin.....	Russia.....	914 P Street.
Dudley, Frederick E., Jr.....	D. C.....	204 Carroll Street, Takoma, D. C.
Daly, Herbert A.....	D. C.....	1919 G Street.
Donohue, T. Francis.....	D. C.....	3345 P Street.
Kinsey, Raymond D.....	D. C.....	459 G Street, S. W.
Kloczewski, Albert Marian.....	D. C.....	500 9th Street.
Kenner, Edwin A.....	D. C.....	1711 17th Street.
Lear, Joseph.....	Russia.....	739 13th Street.
Mix, Anna E.....	Md.....	229 C Street, N. E.
Maxwell, David Lander.....	Tenn.....	21st and G Streets.
Miller, Henry M., B.S.....	Ky.....	Hygienic Lab., 25th and E Streets.
McCann, George E.....	Mass.....	607 E Street.



Name.	Legal residence.	City address.
Neil, Joseph M.....	Pa.....	4314 8th Street.
Snider, Clyde E.....	Okl.....	24th and E Streets.
Shipman, Miles T.....	Kans.....	3528 11th Street.
Tennyson, Irving A.....	Va.....	224 N. Columbus Street, Alexandria, Va.
Umhau, John W.....	D. C.....	737 10th Street, S. W.
Whitley, Lawrence B.....	N. C.....	79 Seaton Place.
White, Herbert F.....	Va.....	1120 New York Ave.
Wiley, Clarence H.....	Va.....	1322 Q Street.
Whiteseay, William H.....	Ohio.....	3407 Holmead Place.

## Junior Class.

Anderson, Grace L.....	Mo.....	1721 21st Street.
Barker, Charles W.....	Cal.....	Room 407, P. O. Dept.
Colomb, William H.....	Vt.....	3401 14th Street.
Day, Harold L.....	D. C.....	1730 8th Street.
Elliott, Edna T.....	Mich.....	201 Md. Ave., N. E.
Feller, Frank M.....	Va.....	1335 Q Street.
Gorsuch, Albert F.....	D. C.....	812 8th Street, S. E.
Henry, Columbus W.....	N. C.....	22d and N Streets.
Morgan, Malcolm W.....	Md.....	Bethesda, Md.
Mayo, Redmond.....	N. C.....	1115 5th Street.
Swann, Edwin G.....	Md.....	Naval Medical School and Hospital.
Schweinhaut, Thomas F.....	D. C.....	327 Linworth Pl., S. W.
Smyser, Bert A.....	Pa.....	715 I Street, S. E.
Thyson, Leo C.....	D. C.....	2405 18th Street.
Wight, F. Leslie.....	Va.....	1329 F Street, N. E.

## Senior Class.

Butler, Homer Kirk.....	Md.....	327 11th Street, S. E.
Beeson, Loring W.....	Iowa.....	664 Mass. Ave., N. E.
Boyer, Willard Day.....	Md.....	1748 8th Street.
Dammeyer, C. F. W.....	Md.....	11th and E. Capitol Sts.
Feller, Ralph W.....	Va.....	1335 Q Street.
Grubbs, Lindley Roy.....	Md.....	76 I Street.
Gass, Charles Benjamin.....	Md.....	14th and L Streets.
Gill, Theodorice Leith.....	Va.....	9th and P Streets.
Henderson, Charles W.....	Va.....	1415 Ames Pl., N. E.
Henderson, Willis K.....	Va.....	217 14th Street, N. E.
Hohberger, Samuel J.....	Md.....	65 R. I. Ave.
Hughes, Harry D.....	D. C.....	1325 29th Street.
Jones, William Sidney.....	Va.....	1509 Irving Street.

## STUDENTS IN THE UNIVERSITY.

257

Name.	Legal residence.	City address.
Marsden, Frank B.....	D. C.....	1731 1st Street.
Norton, William H.....	Wash.....	136 6th Street, N. E.
Nelson, Gail E., B.S.....	S. Dak.....	1st and C Streets.
Snyder, Carl F.....	D. C.....	3111 16th Street.
Schommer, John B., LL.B.....	Wis.....	1st and R Streets.
Senay, Harry Paul.....	D. C.....	601 H Street, N. E.
Thompson, Milton H.....	D. C.....	14th and R Streets.
Whitebread, Charles.....	Wis.....	748 Gresham Place.

## Students Taking Special Courses.

Pevare, John F.....	N. H.....	1621 13th Street, N. W.
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## Summary.

## CANDIDATES FOR THE DEGREE OF PHAR.D.:

Freshman .....	26
Junior .....	15
Senior .....	21
Special .....	1

63

## COLLEGE OF VETERINARY MEDICINE.

## First Year.

Name.	Legal residence.	City address.
Arche, Arturo.....	Porto Rico.....	2504 14th Street.
Behney, Jacob E.....	Pa.....	2115 14th Street.
Chadwick, Arthur Sidney.....	Mass.....	2219 1st Street.
Doyle, Simon A.....	Ireland.....	306 H Street.
Gillette, George H.....	Kans.....	1007 Virginia Ave., S.W.
Grenfell, Frederick Aloysius.....	D. C.....	1906 H Street.
Hargett, Ernest George.....	N. C.....	310 C Street.
Hooker, William Anson.....	Mass.....	1829 G Street.
Lambert, Fred W.....	Md.....	75½ R Street.
Littleford, Howard C.....	D. C.....	609 G Street, S. E.
McLaughlin, Edward Joseph.....	Ill.....	1230 B Street, S. W.
Martin, William Earl.....	Va.....	2113 14th Street.
Nicol, James Buchanan.....	Va.....	2115 14th Street.
Potteiger, Clarence B.....	Pa.....	1400 Chapin Street.
Tabler, Joseph H.....	D. C.....	Falls Church, Va.



## Second Year.

Name.	Legal residence.	City address.
Ayers, A. T.....	W. Va.....	2113 14th Street.
Baiz, Leo.....	Porto Rico.....	2504 14th Street.
Benjamin, Frank H.....	Md.....	Y. M. C. A.
Buchanan, J. Wesley.....	D. C.....	502 M Street.
Clayton, Harry Thomas.....	Mo.....	Treasury Dept.
Current, Jay B.....	Ind.....	217 4½ Street.
Earl, Warren Becker.....	N. Y.....	Navy Department.
Hammer, Orrin Q.....	Va.....	1444 W Street.
Hodge, Joseph Ernest.....	Tenn.....	1444 W Street.
Fake, Charles Thompson.....	N. Y.....	1013 Lamont Street.
Holt, Campbell Floyd.....	Texas.....	Navy Department.
Lochboehler, Harry A.....	Nebr.....	1320 W Street.
McClure, Floyd I.....	Pa.....	1332 W Street.
McClure, Fred K.....	Pa.....	1332 W Street.
Marsh, Hadleigh.....	D. C.....	3430 Brown Street.
Morcock, Julius Edward.....	Ga.....	14th and W Streets.
Norris, James W.....	Md.....	1316 U Street.
Perrin, Edwin R.....	Mich.....	1320 W Street.
Rankin, John Owen.....	Mo.....	1923 Biltmore Street.
Smith, Jesse K.....	Ariz.....	2115 14th Street.
Stahl, Benton Mehrling.....	D. C.....	2113 14th Street.
Sanchez, Carlos.....	Argentina.....	2504 14th Street, N. W.

## Third Year.

Brett, George Wesley.....	Mass.....	2118 P Street.
Cotton, William Edwin.....	Iowa.....	3242 38th Street.
Dillard, William Edward.....	Va.....	2115 14th Street.
Divine, John Parker.....	D. C.....	1463 Florida Ave.
Dunlavey, Robert Joseph.....	N. Y.....	2113 14th Street.
Franz, Louis John.....	Wis.....	Y. M. C. A.
Fry, William H.....	D. C.....	104 10th Street, S. E.
Graham, Charles R.....	Pa.....	1826 9th Street.
Graybill, Harry Webster.....	Iowa.....	1828 15th Street.
Grubb, Chauncey Merle.....	Md.....	2320 Ontario Road.
Hicks, Greydon St. C.....	Mich.....	621½ Park Road.
Hicks, Tunis.....	Mich.....	621½ Park Road.
Hornbaker, Joseph Nourse.....	Va.....	2009 Kalorama Road.
Hugins, Frank Almon.....	Mass.....	1355 Spring Road.
Humphrey, Charles William.....	Pa.....	327 Penna. Ave., S. E.
Kernick, James.....	Mich.....	316 C Street.
Koon, George Henry.....	Ohio.....	2320 Ontario Road.

## STUDENTS IN THE UNIVERSITY.

259

Name.	Legal residence.	City address.
Kushner, Albert.....	Md.....	2115 14th Street.
Lowry, William B.....	D. C.....	1827 6th Street, N. W.
McCarthy, Henry Joseph.....	Md.....	226 G Street, N. E.
McCray, Arthur Howard.....	Ohio.....	Dept. of Agriculture.
Maher, William Albert.....	Va.....	220 12th Street, S. E.
Miller, Ezra William.....	Va.....	1332 W Street.
Moore, Charles S.....	Mich.....	2323 University Place.
O'Hara, William Henry.....	Wis.....	2414 N. Capitol Street.
Plunkert, Charles M.....	D. C.....	435 O Street.
Riley, Edward Henry.....	Okla.....	Dept. of Agriculture.
Shore, Howard J.....	N. C.....	2113 14th Street.

## Summary.

## CANDIDATES FOR THE DEGREE OF D.V.M.:

First year.....	15
Second year.....	22
Third year.....	28

65



## GEOGRAPHICAL DISTRIBUTION.

Alabama .....	7	Pennsylvania .....	64
Arizona .....	3	Rhode Island.....	4
Arkansas .....	2	South Carolina.....	11
California .....	5	South Dakota.....	9
Colorado .....	3	Tennessee .....	12
Connecticut .....	9	Texas .....	10
Delaware .....	3	Utah .....	5
District of Columbia.....	486	Vermont .....	13
Florida .....	2	Virginia .....	77
Georgia .....	5	Washington .....	6
Idaho .....	3	West Virginia.....	14
Illinois .....	32	Wisconsin .....	21
Indiana .....	17	Argentina .....	1
Iowa .....	23	Asia Minor.....	1
Kansas .....	17	Austria .....	2
Kentucky .....	12	Canada .....	1
Louisiana .....	4	China .....	9
Maine .....	12	Cuba .....	1
Maryland .....	66	Ecuador .....	1
Massachusetts .....	45	Egypt .....	1
Michigan .....	31	England .....	2
Minnesota .....	23	France .....	2
Mississippi .....	2	Germany .....	3
Missouri .....	20	Greece .....	2
Montana .....	1	Ireland .....	1
Nebraska .....	12	Japan .....	1
New Hampshire.....	5	Mexico .....	1
New Jersey.....	9	Norway .....	1
New Mexico.....	1	Philippine Islands.....	5
New York.....	52	Porto Rico.....	5
North Carolina.....	30	Russia .....	3
North Dakota.....	4	Servia .....	1
Ohio .....	31	Venezuela .....	1
Oklahoma .....	5		
Oregon .....	4		

1,277

## RECAPITULATION.

MEMBERS OF FACULTY AND TEACHING STAFF OF THE UNIVERSITY AND THE ASSOCIATED COLLEGES. (In many instances members of the Teaching Staff give only part time to the University):

Professors .....	67
Associate Professors.....	7
Assistant Professors.....	19
Associates, Lecturers, Instructors, Demonstrators, and Assistants.....	83
Total.....	176

## STUDENTS REGISTERED IN THE UNIVERSITY, 1910-11.

## DEPARTMENT OF ARTS AND SCIENCES:

Faculty of Graduate Studies.....	54
College of Arts and Sciences.....	281
College of Engineering and Mechanic Arts.....	176
College of the Political Sciences.....	77
Teachers College.....	93

## PROFESSIONAL DEPARTMENTS:

Department of Law.....	343
Department of Medicine.....	98
Department of Dentistry.....	40

## ASSOCIATED COLLEGES:

National College of Pharmacy.....	63
College of Veterinary Medicine.....	65

Total.....	1,290
Duplicates .....	13
Total.....	1,277



## Degrees Conferred.

---

### DEGREES CONFERRED AT FALL CONVOCATION, 1910.

#### IN COURSE.

##### Bachelor of Arts.

Clarence Gilbert Farwell.

##### Bachelor of Laws.

William Ernest Faulkner.

A.B., 1907, Union College.

##### Master of Patent Law.

Chester Harmon Braselton.

B.S., 1904, Valparaiso University.

Carl A. Hellman.

B.S., 1906, M.S., 1909, University of Illinois.

Nathan Cohen.

E.E., 1906, University of Minnesota.

##### Doctor of Medicine.

Lewis William Fetzner.

Katherine M. Herring.

Nesmith P. Nelson.

### DEGREES CONFERRED AT WINTER CONVOCATION, 1911.

#### IN COURSE.

##### Master of Arts.

Joseph Plass, Germany.

##### Civil Engineer.

Glenn Rupert Lawrence, District of Columbia.

##### Bachelor of Arts.

John Knox Arnold, Kentucky.

Chien Shii Fan, China.

**Teacher's Diploma.**

Mildred Floyd Johnston, District of Columbia.  
A.B., 1909, The George Washington University.

**Master of Laws.**

Charles Hermon Patterson, New York.

**Bachelor of Laws.**

Walter Eames Blount, District of Columbia.  
Robert Lundie Mackenzie, Oregon.  
Claud Henry McCray, New York.  
Herbert William White, Iowa.

**Bachelor of Law.**

A. Lapin Cohen, Wisconsin.

**Doctor of Medicine.**

Audrey Goss, District of Columbia.

**DEGREES CONFERRED AT COMMENCEMENT, 1911.****HONORARY.****Doctor of Laws.**

Elmer Ellsworth Brown.  
Francis Mackall Gunnell.

**Doctor of Medicine.**

Leland Ossian Howard.

**IN COURSE.****Doctor of Philosophy.**

George Nelson Coffey, North Carolina.  
Ph.B., 1900, University of North Carolina.  
M.S., 1908, The George Washington University.  
Hayner Haskell Gordon, Ohio.  
B.S. in E.E., 1908, E.E., 1909, The George Washington University.  
Grace Helen Kent, Vermont.  
A.B., 1902, A.M., 1904, University of Iowa.  
Charles Neil McBryde, Virginia.  
B.S., 1891, University of South Carolina.  
M.S., 1893, The Virginia Polytechnic Institute.  
M.D., 1897, The Johns Hopkins University.  
Edwin Wiley, Virginia.  
B.S., 1891, A.B., 1898, A.M., 1898, University of Tennessee.



**Master of Arts.**

Bertha Frances Wolfe, Indiana.

A.B., 1884, Southern Indiana Normal College.

**Master of Arts and Master's Diploma in Education.**

Henry Francis Lowe, District of Columbia.

L.I., 1890, College of William and Mary.

B.S., 1903, The George Washington University.

**Master of Science.**

Julia Theckla Macmillan, District of Columbia.

B.S., 1907, The George Washington University.

**Civil Engineer.**

Irving Randolph Saum, District of Columbia.

B.S. in C.E., 1910, The George Washington University.

**Doctor of Civil Law.**

Paca Oberlin, Virginia.

LL.B., 1903, LL.M., 1904, Columbian University.

**Bachelor of Arts.**

Hilda Beale, District of Columbia.

(With distinction.)

Warren Jefferson Davis, Virginia.

Roy Linney Deal, North Carolina.

William Duane Fulton, Jr., Ohio.

Robert Johnson, Missouri.

Emery Liebschutz Lasier, New Hampshire.

Edith Blinston Lowe, District of Columbia.

Winfield Scott Mason, California.

Kenneth Fuller Maxcy, District of Columbia.

Helen Sellman Nicholson, District of Columbia.

(With distinction.)

Arnold Clarence Otto, Wisconsin.

James Rierison Smith, North Carolina.

Helen Summy, District of Columbia.

William John Denziloe Thomas, District of Columbia.

Clarendon Haysmer Thompson, Michigan.

Prescott Stearns Tucker, District of Columbia.

(With distinction.)

Ethel Marguerite Weller, District of Columbia.

(With distinction.)

**Bachelor of Arts and Teacher's Diploma.**

Katherine Harper Bevard, District of Columbia.

Reuben Finkelstein, District of Columbia.

Helen Burnett Gardner, District of Columbia.

Robert Lee Haycock, District of Columbia.

(With distinction.)

Mary Beatrice Hilleary, District of Columbia.

Alice Mary Richards, District of Columbia.

(With distinction.)

Bertha Florine Walker, District of Columbia.

**Bachelor of Science.**

Edwin Henry Ingersoll, District of Columbia.

Clifford Alonzo Rowley, District of Columbia.

Laura Winfield Steever, Maryland.

**Bachelor of Science in Chemistry.**

William Firey Maupin, North Carolina.

**Bachelor of Science in Civil Engineering.**

Harold Kennedy Craig, District of Columbia.

Theodore Lyman Moody, Maryland.

Augustin Mitchell Prentiss, South Carolina.

**Bachelor of Science in Electrical Engineering.**

Calvert Burke Gill, Maryland.

Henry Frank Wiegand, District of Columbia.

(With distinction.)

**Bachelor of Science in Mechanical Engineering.**

Roy Franklin Carty, District of Columbia.

Frank Atherton Howard, District of Columbia.

Oliver Lloyd Jenkins, Indiana.

Dana McGuffey Lasley, District of Columbia.

**Bachelor of Science in Architecture.**

Louis Henry Eugene Justement, District of Columbia.

Joseph Nicolay Nielsen, Illinois.

**Master of Diplomacy.**

John Knox Arnold, Kentucky.



## Master of Patent Law.

- Edgar Whittington Adams, Illinois.  
B.S. in E.E., 1908, Armour Institute of Technology.  
LL.B., 1910, National University Law School.
- Ira James Adams, Kansas.  
B.S., 1906, University of Kansas.  
LL.B., 1910, National University Law School.
- Lilian Brock Aveilhé, District of Columbia.  
LL.B., 1905, Washington College of Law.
- John Boyle, Jr., Massachusetts.  
S.B., 1901, Massachusetts Institute of Technology.
- Robert Alan Brannigan, District of Columbia.
- Jesse Miller Campbell, Missouri.  
D.D.S., 1888, National University.  
LL.B., 1910, Washington College of Law.
- Melville Durant Church, District of Columbia.
- Anne Elizabeth Draper, New York.  
LL.B., 1908, Washington College of Law.
- Elizabeth Tyler Evans, District of Columbia.  
LL.B., 1908, Washington College of Law.
- Herman Trafton Gammons, District of Columbia.  
S.B., 1906, Massachusetts Institute of Technology.  
LL.B., 1908, LL.M., 1909, National University Law School.
- George F. Gourley, Maryland.  
LL.B., 1909, LL.M., 1910, National University Law School.
- William Archibald Graff, Virginia.  
LL.B., 1910, The George Washington University.
- Sophie Bishop Kent, Rhode Island.  
LL.B., 1907, LL.M., 1908, Washington College of Law.
- George Peter Kimmel, Kansas.  
LL.B., 1910, Georgetown University.
- Harold Avery Kingsbury, District of Columbia.  
LL.B., 1910, National University Law School.
- Floyd John Porter, New York.  
LL.B., 1909, LL.M., 1910, National University Law School.
- Lester Lyman Sargent, Massachusetts.  
LL.B., 1910, Georgetown University.
- John McAllister Stevenson, Jr., Texas.  
A.B., 1903, Yale University.  
LL.B., 1910, University of Texas.
- La Mont Abner Williams, District of Columbia.  
LL.B., 1901, State University of Iowa.

## Bachelor of Laws.

- Richard Earle Babcock, District of Columbia.  
Edward Damon Baldwin, Oregon.  
    B.Lit., 1906, Whitman College.  
    M.A., 1909, The George Washington University.  
Carl Martin Behrmann, Illinois.  
George Beneman, Maryland.  
Paul Earl Bradley, Illinois.  
John Wentworth Calvert, Maryland.  
John Condict Carpenter, District of Columbia.  
    M.E., 1908, Cornell University.  
Joseph Ryland Curl, District of Columbia.  
    (With distinction.)  
    B.S., 1909, The George Washington University.  
Franz Frederick William Dahn, Minnesota.  
    B.S., 1909, The George Washington University.  
James Dunbar Dodson, District of Columbia.  
Hsen Shuen Foo, China.  
    A.B., 1906, The Ching Chong School.  
Jay Lyman Gray, Maine.  
    A.B., 1908, Bowdoin College.  
William Robinson Grover, Michigan.  
    Ph.B., 1907, Kalamazoo College.  
Arthur Hellen, District of Columbia.  
David Paul Herriott, Pennsylvania.  
    A.B., 1905, Washington and Jefferson College.  
Hermon Henry Hill, Massachusetts.  
    A.B., 1907, Dartmouth College.  
Louis Bronson Le Duc, District of Columbia.  
Soterios Nicholson, Greece.  
Gideon Johnson Pillow, Louisiana.  
Ernest Frederic Alan Place, New York.  
Conger Ryder Smith, Michigan.  
Oscar Thompson, Wisconsin.  
Rufus Harold Tilton, Massachusetts.  
    Ph.B., 1908, Wesleyan University.  
William Cabell Van Vleck, District of Columbia.  
    (With distinction.)  
    A.B., 1908, The George Washington University.  
Lane Davis Webber, Indiana.  
Warner Lambeth Wilmeth, Texas.



## Bachelor of Law.

- James William Berry, District of Columbia.  
A.B., 1909, The George Washington University.
- Edward Wright Byrn, Jr., Maryland.  
Clarence Benjamin Dutton, Massachusetts.  
Matthew Singleton Farmer, Jr., North Carolina.  
Stanley Herman Fischer, District of Columbia.  
William Wright Fraser, Maryland.  
A.B., 1905, New Windsor College.
- Herbert Benjamin Gerhart, Pennsylvania.  
Frank Willard Hoover, District of Columbia.  
William Shepherd Linnell, Maine.  
A.B., 1907, Bowdoin College.
- Samuel Moyer, Pennsylvania.  
Richard Blakelock Owen, District of Columbia.  
Ferdinand Henry Pease, Vermont.  
A.B., 1907, University of Vermont.
- Justin Frank Seiler, Ohio.  
A.B., 1908, M.A., 1910, The George Washington University.
- Thomas William Smith, Idaho.  
Thomas Peachy Spencer, Virginia.  
A.B., 1905, William and Mary College.
- Eugene Charles Wann, District of Columbia.

## Doctor of Medicine.

- Arne O. Arneson, North Dakota.  
Ewald George Baum, Wisconsin.  
(With distinction.)
- Charles Le Roy Brock, District of Columbia.  
Philip Castleman, Massachusetts.  
B.S., 1906, Harvard University.
- Oliver Clemence Cox, West Virginia.  
Adriano Talbos Cruz, Philippine Islands.  
Arthur Alexander Eisenberg, District of Columbia.  
(With distinction.)  
A.B., 1910, The George Washington University.
- George Irving Eppard, Virginia.  
Charles Henry Hayton, District of Columbia.  
A.B., 1910, The George Washington University.
- Felix Arnold Irmen, District of Columbia.  
Henry William Jaeger, District of Columbia.  
Albert John Molzahn, Nebraska.  
B.S., 1906, Fremont College.

Harry Waterhouse Oliver, North Dakota.  
Wendell Arthur Heath Paige, Vermont.  
Arthur C. Smith, New York.  
Carl George Zimmerman, New York.

**Doctor of Dental Surgery.**

Lloyd Yohe Beers, Pennsylvania.  
John McGirk McCausland, Pennsylvania.  
David Levin, District of Columbia.  
Domiciano J. Sandoval, Philippine Islands.  
A.B., Colegio de San Juan de Letran, Manila, P. I.  
Eugene Roger Stone, Wisconsin.  
Homer Ernest Wood, District of Columbia.

**Doctor of Pharmacy.**

Loring W. Beeson, Iowa.  
Willard Day Boyer, Maryland.  
Homer Kirk Butler, Maryland.  
Ralph White Feller, Virginia.  
Charles Benjamin Gass, Maryland.  
Theodore Leith Gill, Virginia.  
Charles W. Henderson, Virginia.  
William Sidney Jones, Virginia.  
Gail Eldridge Nelson, South Dakota.  
B.S., 1907, Agricultural and Mechanical College, Oklahoma.  
Carl F. Snyder, District of Columbia.  
Charles Whitebread, Wisconsin.

**Doctor of Veterinary Medicine.**

George Wesley Brett, Massachusetts.  
William Edwin Cotton, Iowa.  
William Edward Dillard, Illinois.  
John Parker Divine, Virginia.  
Robert Joseph Dunlavey, New York.  
John Louis Franz, Wisconsin.  
William Hamilton Fry, District of Columbia.  
Charles Roy Graham, Pennsylvania.  
Harry Webster Graybill, Nebraska.  
B.Sc., 1900, M.A., 1902, University of Nebraska.  
Chauncey Merle Grubb, Maryland.  
Tunis Hicks, Michigan.  
Frank Almon Hugins, Massachusetts.



Joseph Nourse Hornbaker, Virginia.

Charles William Humphreys, Pennsylvania.

James Henry Kernick, Michigan.

D.V.S., 1910, United States College of Veterinary Surgeons.

George Henry Koon, New York.

Albert Kushner, Maryland.

William Buck Lowry, District of Columbia.

Henry Joseph McCarthy, Maryland.

Arthur Howard McCray, Ohio.

B.S., 1909, Ohio State University.

Ezra William Miller, Virginia.

Charles Somerville Moore, Michigan.

B.S., 1908, The George Washington University.

William Henry O'Hara, Wisconsin.

Edward Henry Riley, Minnesota.

B.Agr., 1903, University of Minnesota.

Howard James Shore, North Carolina.

## Doctors of Philosophy.

During the years 1894 to 1911, inclusive, the University has conferred the degree of Doctor of Philosophy, after examination and the presentation and public defense of a thesis, upon the following persons:

1894.

- \*Edward Farquhar, (Greek)  
Thesis: Elements of Unity in the Homeric Poems. (Conservative Review, vol. iii, June-September, 1900.)
- Walter Scott Harshman, (Theoretical Astronomy)  
M.S., 1892, Columbian University.  
Thesis: Investigation of the Motion of the Pericentre of Deimos. (Astronomical Journal, Boston, vol. xiv, pp. 145-148, 1894.)
- Professor Frank Hall Knowlton, (Botany)  
B.S., 1884, M.S., 1887, Middlebury.  
Thesis: The Flora of the Laramie Group and Allied Formations. (Not published.)
- Claude Augustus Oscar Rosell, (Chemistry)  
M.A., 1881, University of Pennsylvania; LL.B., 1886, Georgetown University.  
Thesis: Investigation of the Properties of Ferric Acid. (J. Am. Chem. Soc., vol. xvii, pp. 760-769, 1895.)

1895.

- George Wesley Hamner, (History)  
B.A., 1882, M.A., Hiawasse College; LL.B., 1885, University of Alabama; LL.M., 1886, Georgetown University.  
Thesis: Researches upon the Government of the Creek Indians. (Not published.)

1896.

- Edward Clark Hudson, (Greek)  
B.A., 1884, M.A., 1894, Hiawasse College; M.A., 1894, Columbian University.  
Thesis: Investigation into the Use of the Genitive Case in Greek. (Not published.)
- Rev. James Stephen Lemon, (Psycho-physics)  
B.A., 1864, M.A., 1867, Wesleyan University, Middletown, Conn.  
Thesis: The Skin Considered as an Organ of Sensation. (Published separately, 1898, 70 pp.)

1897.

- Professor Charles Arthur Hollick, (Palæobotany)  
Ph.D., 1879, Columbia College.  
Thesis: Palæobotany of the Yellow Gravel at Bridgeton, N. J. (Not published.)

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\*Deceased.



John Scott Johnson, (Philosophy)  
B.S., 1893, M.A., 1894, Columbian University.  
Thesis: The Influence of French Thought on the Formation of the Constitution of the United States. (Not published.)

Timothy William Stanton, (Palaeontology)  
B.S., 1883, M.S., 1895, University of Colorado.  
Thesis: A Comparative Study of the Lower Crataceous Formation and Faunas of the United States. (Jour. of Geology, pp. 1-49, September-October, 1897.)

1898.

\*Cabell Whitehead, (Chemistry)  
B.M., 1885, Lehigh University; M.S., 1895, Columbian University.  
Thesis: A Study of the Tellurides; Their Formation and Chemical Properties. (G. W. U. Bull., 5 [4], 65-68, 1906.)

1900.

Eugene A. Byrnes, (Physical Chemistry)  
B.A., 1884, Michigan University; LL.B., 1887, LL.M., 1888, Columbian University.  
Thesis: Experiments on the Direct Conversion of the Energy of Carbon into Electrical Energy. (1, "Voltaic Cells with Fused Electrolytes"; 2, "Notes on Metallic Diaphragms." Trans. Amer. Electrochemical Society. Vol. 2, pp. 113-121. Vol. 4, p. 135.)

Rev. Benjamin Alfred Dumm, (Philosophy)  
B.A., 1886, M.A., 1889, Western Maryland College.  
Thesis: The Concept of Self in the Analysis of Experience. (Not published.)

Professor Charles Russell Ely, (Chemistry)  
A.B., 1891, A.M., 1897, Yale College.  
Thesis: Investigation of the Phenomenon of Deliquescence and the Capacity of Salts to Attract Water Vapor. (G. W. U. Bull., 5 [4], 69-74, 1906.)

Ernestine Fireman, (Chemistry)  
M.S., 1898, Columbian University.  
Thesis: The Action of Phosphonium Iodide on Tetra and Penta Chlorides. (Am. Chem. Jour., 30, 116-133, 1903.)

Charles Moore, (American History)  
A.B., Harvard; M.A., 1898, Columbian University.  
Thesis: The Northwest under Three Flags. (Published separately by Harper & Bros., New York, 1900, 402 pp.)

1901.

William Hamilton, (American History)  
B.A., 1891, Moravian College, Pennsylvania; M.A., 1894, Columbian University.  
Thesis: The Expansion of Russia to the Eastward. (Not published.)

Chohei Shirasu, (Economics)  
Graduate, 1893, Doshisha University, Japan; A.M., 1899, Yale University.  
Thesis: The Development of Commerce in Japan and its Effect on Civilization. (Summary of Commerce and Finance for December, 1901, Bureau of Statistics, U. S. Treasury Department, pp. 2227-2315.)

\*Deceased.

1902.

- Rev. Frank Leighton Day, (Anthropology)  
B.A., 1891, M.A., 1896, Roanoke College; B.D., 1895, Vanderbilt University.  
Thesis: Did the Semites Pass through a Totem Stage? (Not published.)
- Nevil Monroe Hopkins, (Chemistry)  
B.S., 1899, M.S., 1900, Columbian University.  
Thesis: Some Experiments on Electrolytic Conductivity with Reference to the Ionic Theory. (G. W. U. Bull., 3 [3], 91-94, 1904.) (Published separately as "Experimental Electrochemistry," by D. Van Nostrand Company, New York, 1905, 284 pp., 231 ill.)

1903.

- Edwin Allston Hill, (Chemistry)  
A.B., 1875, A.M., 1902, Yale University; M.S., 1901, Columbian University.  
Thesis: The Constitution of Certain Halogen Oxyacids as inferred from Thermochemical Data. (G. W. U. Bull., 3 [4], 94-103, 1904.)
- William Mather Lamson, (Architecture)  
B.S., 1897, C.E., 1899, Columbian University.  
Thesis: Iron and Steel Domes. (Not published.)
- Thomas Malcolm Price, (Biochemistry)  
B.S., Maryland Agricultural College; M.S., 1900, Columbian University.  
Thesis: The Influence of Varying Strength Solutions of Formaldehyde on some of the Enzymes of Animal Origin. (G. W. U. Bull., 3 [4], 104-108, 1904.)
- Harriet Richardson, (Zoölogy)  
A.B., 1896, A.M., 1901, Vassar College.  
Thesis: Contributions to the Natural History of the Isopoda. (Proc. U. S. Nat. Museum, 27, 1-89, 1904, and Bull. U. S. Fish Com., pp. 47-54, September 17, 1903.)

1904.

- William Macon Coleman, (History)  
A.B., 1858, A.M., 1892, University of North Carolina.  
Thesis: A Refutation of Mommsen's Theory on Caesar's Agrarian Policy. (Not published.)
- Frank Van Vleck, (Mechanical Engineering)  
M.E., 1884, Stevens' Institute of Technology.  
Thesis: Improvements in Ship Construction. (Not published.)
- Andrew Wilson, (American History)  
B.S., 1885, B.O., 1886, B.A., 1886, M.A., 1890, Kansas Normal College; LL.B., 1890, LL.M., 1891, Georgetown University; M.L., 1892, D.C.L., 1893, Yale University.  
Thesis: Influence of John Marshall on the Political History of the United States. (Not published.)

1905.

- Ray Smith Bassler, (Palæontology)  
B.A., 1902, University of Cincinnati; M.S., 1903, The Columbian University.  
Thesis: A Study of the James Types of Ordovician and Silurian Bryozoa. (Proc. U. S. Nat. Museum, xxx, 1906, 1-66, pls. I-IV.)



Hiram Colver McNeil,

(Chemistry)

B.S., 1896, M.S., 1899, Denison University.

Thesis: On the Constitution of Certain Natural Silicates. (G. W. U. Bull., 4 [3], 76-79, 1903.) (Journal American Chemical Society [28], 590-602, 1906.)

Henry Albert Pressey,

(Hydraulic Engineering)

B.S., 1893, The Columbian University; B.S., 1896, Massachusetts Institute of Technology.

Thesis: Flow of Water in Channels. (Not published.)

Warren Waverley Phelan,

(Comparative Jurisprudence)

B.A., 1894, M.A., 1896, Columbian University.

Thesis: An Historical Sketch of the Criminal Law of Louisiana from the Founding of the Colony to the Establishment of the State. (Not published.)

1906.

Cornelius Lott Shear,

(Botany)

B.S., 1896, M.S., 1900, University of Nebraska.

Thesis: Cranberry Diseases. (G. W. U. Bull., 5 [4], 75-78, 1906. Bulletin 110, Bureau of Plant Industry, U. S. Department of Agriculture, 1907.)

Martin Norris Straughn,

(Agricultural Chemistry)

B.S., 1899, Maryland Agricultural College; M.S., 1902, Columbian University.

Thesis: The Chemistry of Different Varieties and Individual Ears of Sweet Corn as Affected by Enzymes, Climatic Conditions, and Breeding. (Bulletin 120, Maryland Agricultural Experiment Station, 1907.)

1907.

Rev. George Brodthage,

(Germanics)

Universities of Strasburg, Berlin and Göttingen.

Thesis: Germanentum, Gottmenschenium. (G. W. U. Bull., 6 [3], 82-86, 1907.)

Frederick Warren Grover,

(Physics)

B.S., 1899, Massachusetts Institute of Technology; M.S., 1901, Wesleyan University, Connecticut.

Thesis: Simultaneous Measurement of the Capacity and Power Factor of Condensers. (G. W. U. Bull., 6 [3], 92-95, 1907. Bulletin of the Bureau of Standards, May 23, 1907, Reprint No. 64, pp. 371-431.)

Edward Elliott Richardson,

(Philosophy)

B.S., 1904, M.D., 1905, M.S., 1905, George Washington University.

Thesis: Mechanism and Teleology. (G. W. U. Bull., 6 [3], 87-91, 1907.)

Rabbi Abram Simon,

(Philosophy)

1894, Cincinnati Hebrew Union College; B.L., 1894, University of Cincinnati.

Thesis: The Constructive Character and Function of Religion in Human Progress as Illustrated by the Religion of Israel. (Not published.)

Walter Otheman Snelling,

(Chemistry)

B.S. in Chemistry, 1904, Columbian University; B.S. in General Science, 1905, Harvard University; M.S., 1906, Yale University.

Thesis: Contributions to the Knowledge of Tellurium. (Not published.)

- Warner W. Stockberger, (Botany)  
 B.S., 1902, Denison University.  
 Thesis: The Effect of Certain Toxic Solutions on Nuclear and Cell Division in Root Tips of *Vicia Faba*. (Not published.)

- Frank Cummings Cook, (Chemistry)  
 B.A., 1900, M.A., 1902, M.S., 1904, Yale University.  
 Thesis: Phosphorus Metabolism Experiments. (Bulletin 123, U. S. Bureau of Chemistry, 63 pp.)

1908.

- Clara Southmayd Ludlow, (Preventive Medicine)  
 B.S., 1900, M.S., 1901, A. and M. College, Mississippi.  
 Thesis: The Mosquitoes of the Philippine Islands. The distribution of certain species and their occurrence in relation to the incidents of certain diseases. (Published separately, Washington, D. C., 1908, 63 pp.)

- Benjamin George Wilkinson, (History)  
 B.A., 1897, University of Michigan; M.A., 1905, Union College.  
 Thesis: The Overthrow of the Concordat by the Third Republic. (Not published.)

1909.

- William Clifton Phalen, (Geology)  
 S.B., 1899, S.M., 1902, Massachusetts Institute of Technology.  
 Thesis: Economic Geology of the Kenova Quadrangle in Kentucky, Ohio, and West Virginia. (Bulletin 349, U. S. Geological Survey.)

- Harry Wilson Houghton, (Biochemistry)  
 B.S. in Chemistry, 1906, M.S., 1907, The George Washington University.  
 Thesis: The Effect of Cold Storage on Chicken Meat. (Not published.)

- George Whitfield Stiles, Jr., (Preventive Medicine)  
 B.S., 1900, Oklahoma Agricultural and Mechanical College; M.D., 1905, The George Washington University.  
 Thesis: The Possibility of Shellfish Contamination from Sewage-Polluted Waters. (Bulletin 136, U. S. Bureau of Chemistry, 53 pp.)

- Luther Hess Waring, (Germanics)  
 B.A., 1905, The George Washington University; M.A., 1904, Columbian University.  
 Thesis: Martin Luther's Political Reforms of Germany. (Not published.)

1910.

- August Frederick Wilhelm Edler, (History)  
 B.A., 1906, M.A., 1907, M.Dip., 1908, The George Washington University.  
 Thesis: The Relation of the Dutch Republic to the American Revolution. (Not published.)

- James Henry Gardner, (Geology)  
 B.S., 1900, M.S., Kentucky State College.  
 Thesis: The Naciminto and Torrejon Formations of the Puerco Group.

- Herbert Harvey Kimball, (Astro-Physics)  
 B.S., 1884, New Hampshire College of Agriculture and Mechanic Arts;  
 M.S., 1900, Columbian University.  
 Thesis: Solar Radiation, Atmospheric Absorption and Sky Polarization.



- William Thomas Sheperd, (Psychology)  
 B.Sc., 1899, Gale College; M.A., 1905, M.S., 1906, Oklahoma State University.  
 Thesis: On some Mental Processes of the Rhesus Monkey. (Psychological monographs, vol. xii, No. 5, 61 pp.)

1911.

- George Nelson Coffey, (Geology)  
 Ph.B., 1900, University of North Carolina; M.S., 1908, The George Washington University.  
 Thesis: A Study of the Soils of the United States. (Not published.)
- Hayner Haskell Gordon, (Engineering)  
 B.S. in E.E., 1908, E.E., 1909, The George Washington University.  
 Thesis: An Investigation of the Action of the Crystal Rectifying Delectors. (Not published.)
- Grace Helen Kent, (Psychology)  
 A.B., 1902, A.M., 1904, University of Iowa.  
 Thesis: Experiments on Habit Formation in Dementia Præcox. (Not published.)
- Charles Neil McBryde, (Preventive Medicine)  
 B.S., 1891, University of South Carolina; M.S., 1893, The Virginia Polytechnic Institute; M.D., 1897, The Johns Hopkins University.  
 Thesis: A Bacteriological Study of Ham Souring. (Bulletin 132, U. S. Bureau of Animal Industry, pp. 55.)
- Edwin Wiley, (English)  
 B.S., 1891, A.B., 1893, A.M., 1898, University of Tennessee.  
 Thesis: Shakespeare's Treatment of the Supernatural in the Light of Contemporary Thought and Opinion. (Not published.)

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 RUFFIN, S., 1335 Connecticut Avenue.  
 RUSSELL, F. F., 1928 Biltmore Street.  
 RUST, T. L., 1408 L Street.  
 SCHMIDT, A. P. W., 35 Bryant Street.  
 SCHOENFELD, H., Cleveland Park.  
 SCHWINN, G. H., Gov't Hospital for Insane.  
 SEIBERT, E. G., 916 14th Street.  
 SHANDS, A. R., 901 16th Street.  
 SHARP, G. M., The Rochambeau.  
 SHOEMAKER, C. G., 826 Conn. Avenue.  
 SHUTE, D. K., 1719 DeSales Street.  
 SIMPSON, C. A., 1120 Vermont Avenue.  
 SINGLETON, W. H., LeDroit Building.  
 SMALL, W. S., 1340 Irving Street.  
 SMITH, C. S., 2122 H Street.  
 SNYDER, A. A., 3051 N Street.  
 SOWERS, W. F. M., 1707 Massachusetts Avenue.  
 STAFFORD, W. P., 1603 Kencsaw Avenue.  
 STARR, F. C., 2812 13th Street.  
 STAVELY, A. L., 1744 M Street.  
 STERNBERG, G. M., 2005 Massachusetts Avenue.  
 STOCKTON, C. H., 2019 O Street.  
 SWETT, O. D., Chevy Chase, Md.  
 SWISHER, C. C., Cosmos Club.  
 TAYLOR, A. C., 909 Massachusetts Avenue, N. E.  
 TAYLOR, J. W., 650 E. Capitol Street.  
 THOMPSON, H. C., 1213 Penn. Avenue.  
 THOMPSON, J. F., The Rochambeau.  
 THOMPSON, J. L., 1112 N. Y. Avenue.  
 TIBBETS, A. P., Casualty Hospital.  
 TRAUM, J., 2254 Ontario Road.  
 TACHIFFELY, D., 475 Penn. Avenue.  
 TURNER, J. P., 918 O Street.  
 VAN ORSDEL, J. A., 2500 Ontario Road.  
 VEHTZ, C. W. A., No. 359, Treasury Dept.  
 WAGGAMAN, S., 1403 31st Street.  
 WALTON, J. R., 724 9th Street.  
 WEALEY, A. E., 1319 K Street.  
 WELLES, F. P., 753 8th Street, S. E.  
 WELLINGTON, J. R., 1721 Connecticut Avenue.  
 WHITE, C. S., The Farragut.  
 WHITE, W. A., Gov't Hospital for Insane.  
 WILBUR, W. A., 1808 Belmont Road.

WILEY, E., Library of Congress.  
WILEY, H. W., 1848 Biltmore Street.  
WILKINSON, W. W., The Burlington.  
WILLIAMS, H. S., 3113 14th Street.  
WILLIS, H. P., 2809 Ontario Road.  
WOLFE, A. S., 728 13th Street.  
WOODHULL, W. V. Z., 2033 G Street.  
WOODWARD, B. T., Randle Highlands.

WOODWARD, M. R.,  
Room 508, Mills Building.  
WOODWARD, W. C., 1766 Lanier Place.  
WORTHINGTON, A. S., 416 5th Street.  
YARROW, H. C., 926 17th Street.  
YOUNG, H. C., 3104 N Street.  
YOUNG, H., 67 R. I. Avenue.



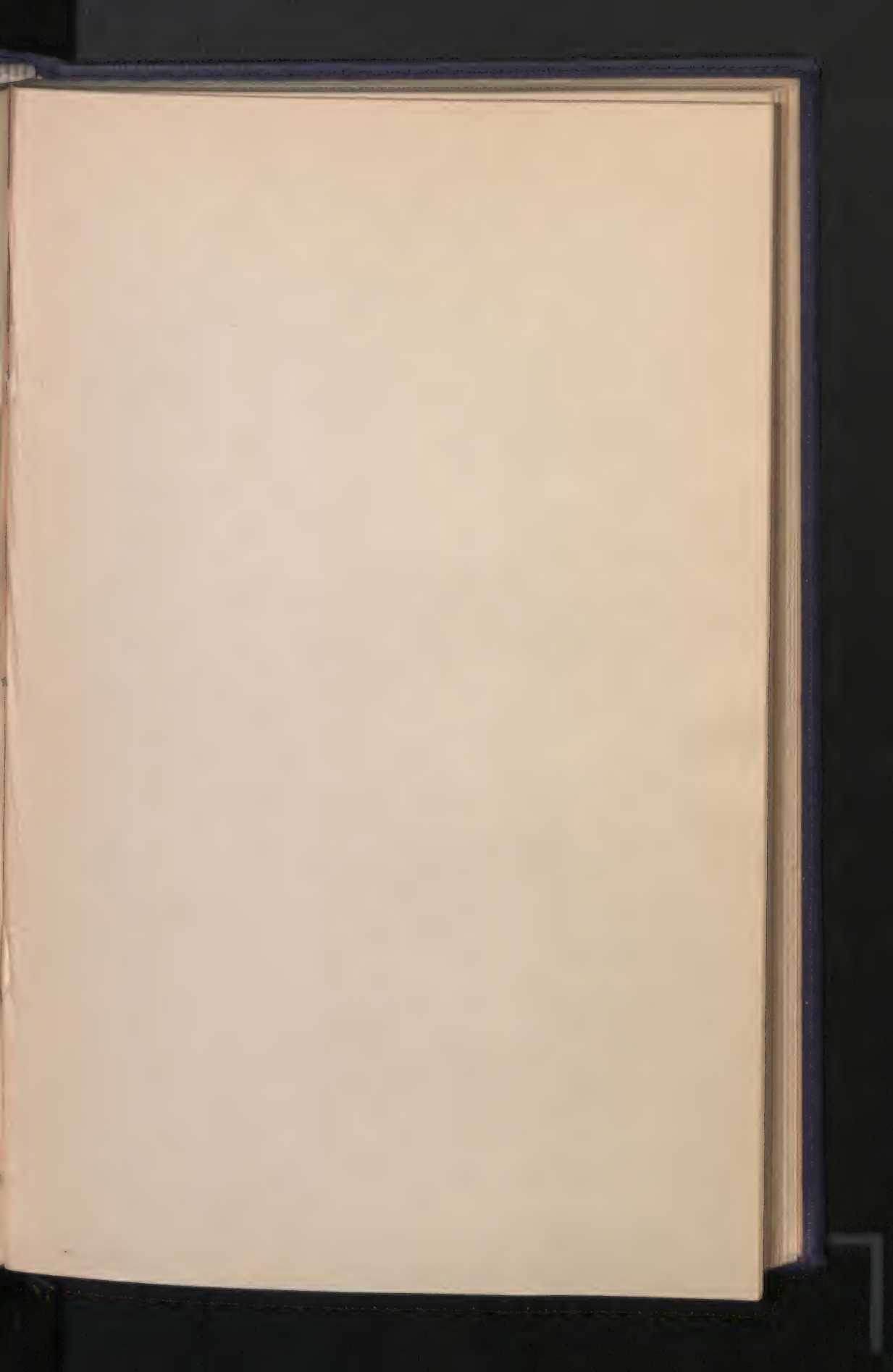


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The  
George Washington University  
Bulletin

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OCTOBER, 1911

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Financial Report of the Executive Committee  
Report of the Treasurer



WASHINGTON, D. C.  
PRESS OF JUDD & DETWEILER, INC.  
1911

## Report of the Executive Committee.

On October 18, 1911, the Executive Committee of the Board of Trustees resolved on the following report to the Board:

Your committee offers the following brief report as a preface to the report of the Treasurer, including that of the American Audit Company:

Upon the consummation of the sale of the University property at the corner of 15th and H Streets, N. W., October 25, 1910, the amount received was used to settle all obligations of the University to August 31, 1910, with the exception of miscellaneous accounts amounting to \$23,628.13 and the indebtedness to the Endowment Funds.

The Board of Trustees ordered the placing of a mortgage of \$350,000 upon the property of the University on H Street between 13th and 14th Streets, now occupied by the Medical Department and the Hospital, to cover all impairment of the Endowment Funds.

During the present year by special contributions, by deferred payments on tuition bills, by insurance rebate, and by an advance of \$1,721.83 from the current budget funds, the miscellaneous accounts mentioned above were reduced to \$4,393.80.

An inspection of the Treasurer's books shows that subscriptions to the amount of \$16,879.99 were paid and applied to the current expenses. Subscriptions due and not paid amount to \$3,395.33. Had these subscriptions been paid it would not have been necessary to borrow \$3,000 from the bank in order to make up the yearly deficit. It is believed, however, that most of these subscriptions will be paid before the maturity of the note. The Treasurer reports, after making an analysis of students' receipts and students' attendance, excepting affiliated colleges, that students' receipts for the year 1910-11 paid 87½ per cent of the expenses of the University.

We call especial attention to the fact that at the close of the present fiscal year, August 31, 1912, the subscriptions to maintenance, except about \$2,200, will terminate with the exception of subscriptions to the College of the Political Sciences, some of which have an additional year to run. To provide for the deficit after the termination of subscriptions an effort has been made during the present year to secure one hundred subscribers at \$100 each for five years or \$10,000 a year for five years. Forty-eight names have been secured thus far. To make this fund available, however, the list of one hundred names must be completed by January 1, 1912. It is the earnest hope of the committee that this fund may be completed. If not another plan must be inaugurated. It is evident that without securing subscriptions to meet the deficit for the year 1912-13 a deficit of ten or fifteen thousand dollars will follow.

A few years ago, when the Van Ness site was purchased by the University, subscriptions were paid in by the Alumni for an Alumni Hall



to the amount of \$4,087.00. Subscriptions were also paid in to a Building Site and Enlargement Fund to the amount of \$34,970.18. On October 17, 1910, the Board of Trustees passed a resolution to the effect "That all subscriptions except those transferred by their subscribers to the General Fund be and hereby are canceled." Subsequently, on January 11, 1911, resolutions were passed as follows:

"Whereas, the objects for which subscriptions were made to the Building Site and Enlargement Fund and to the Alumni Hall Fund have been abandoned by the University; and, whereas, in consequence the Board of Trustees has voted to cancel all such subscriptions to the above-mentioned funds as have not been made available by their donors to the general expenses of the University, it is

*"Resolved*, That notice of the action taken by the Board shall be conveyed individually to each subscriber whose address is known and whose subscription remains credited to either of the above-mentioned funds, with a request that he put his subscription at the free disposal of the University.

*"Resolved*, That a committee of the Board to consist of Messrs. Lisner, Macfarland, and Davis be appointed to convey such notice and request by word of mouth wherever possible.

*"Resolved*, That the Secretary be directed to convey such notice and request by letter to any subscriber whose address is known and whose subscription remains, on March 1, 1911, credited to either of the above-mentioned funds."

In accordance with these resolutions subscribers to the Alumni Hall Fund turned over to the free disposal of the University \$3,177.00 of that fund and \$28,486.20 of the amount paid on the Building Site and Enlargement Fund. With reference to the unreleased amounts paid by subscribers to these funds, it was determined by the Board of Trustees at a subsequent date that these should be carried as obligations to individuals, inasmuch as the objects for which these funds were raised have been abandoned. Subscriptions unreleased amounting to \$7,393.98 must therefore be added to the old debt of \$4,393.80; but it is believed that practically all of this amount will ultimately be placed at the disposal of the University.

Subsequent to the reports of the Treasurer and the American Audit Company the Board of Trustees on October 12, 1911, received and adopted a report submitted by a special committee substantially agreeing that the amounts reported in the Attorney General's report shall be carried as obligations due by the General Fund of the University to the Endowment Funds. The mortgage of \$350,000 placed upon the property will amply cover the obligations to Endowment and other funds.

It is pleasing to report that the University has received during the past year additions to its Endowment Funds amounting to \$20,498.42.

Real estate belonging to the Congressional Endowment Fund has been sold during the year past in amount \$4,306.02, which sum has been added to the Congressional Professorship of English.

## Report of the Treasurer.

THE GEORGE WASHINGTON UNIVERSITY,

October 10, 1911.

*The Board of Trustees of The George Washington University.*

GENTLEMEN: Complying with Section 2, Article VII, of the By-Laws, I have the honor to submit herewith the annual report of the Treasurer, which consists of the report of the American Audit Company and a supplementary report. •

Exhibits A to I, inclusive, show the income and expenditures by departments in detail, and they include in each instance the earned students' fees, of which \$1,712.95 was uncollected when the year closed, August 31, 1911. Exhibit J shows the income and expenditure balances of the educational departments and the general account of the University. Exhibit K shows that all investments reported by the Treasurer have been checked up by the American Audit Company of New York.

The Auditors have not reported on the Hospital for the reason that they do not consider it a part of the educational system of the University, and for the further reason that they have been limited in their investigation of its financial work to the checking up of receipts and expenditures as recorded on the Treasurer's books. The total receipts and expenditures of the Hospital are shown in Exhibit L. The Auditors have reported on the investments of the Endowment Funds, with the exception of the real estate (Exhibit K). The report of Endowment Funds, of which these investments form a part, will be found in Exhibit N.

Endowments were received during the year as follows:

Woodbury Fund, a gift.....	\$9,583.42
Tree Fund, a gift.....	9,715.00
Sterrett Fund, a gift.....	200.00
Hubbard Fund, a gift.....	1,000.00

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\$20,498.42

Real estate belonging to the Congressional Grant was sold during the year for \$4,306.02, and the amount was invested for the Congressional Professorship of English Fund.

Exhibit O shows receipts and expenditures of the Endowment Funds.

The Treasurer recommends a revision of the statement of Endowments, so as to show the book value of investments instead of the face value and the elimination from "Investment A" of a lot valued at \$8,600, which is a part of the Congressional Grant. He also recommends



that the so-called "Investment A," which includes thirteen minor funds, be separated, and in future reports show the individual funds by name and book value.

#### ASSETS AND LIABILITIES.

A statement of assets and liabilities is shown in Exhibit M. The Treasurer recommends a new valuation on real estate, books in libraries, equipment in laboratories, and office and class-room furniture, the last valuation having been made some years ago.

#### OLD DEBT.

On September 1, 1910, the University carried over from the previous year unpaid accounts, including salaries and notes payable, amounting to \$10,689.07. The Treasurer was directed to keep this indebtedness distinct from the current account, and accordingly an account was opened entitled "Accounts payable prior to September 1, 1910." To this account there were added from time to time, by authority of the Executive Committee, the expenses of moving to the I Street buildings; repairs to the I Street buildings; old bills of George B. Post & Sons and Judd & Detweiler, and a compromise settlement with Dr. Richard D. Harlan, former special representative of the University. The total account reached \$23,628.13. To meet this debt the Treasurer was further directed to set aside certain cash balances; collections on old student and hospital accounts receivable, and receipts from a special fund known as the \$15,000 Fund. An advance from the current budget of \$1,721.83 was authorized. The amount realized from these sources was \$19,234.33. There remain unpaid in this account bills aggregating \$4,393.80, and the amount advanced from the current budget. A statement of this account in detail is shown in Exhibit P.

#### BUDGET.

The budget of the University for 1910-11, excluding Medical, Dental, Law, and Hospital, as revised on November 28, 1910, showed an estimated deficit for the year of \$18,135.10. To meet this deficit there were subscriptions on file amounting to \$18,346.65. The actual deficit for the year, including \$1,721.83 advanced from the current receipts to pay old accounts, was \$18,586.13. The actual receipts from subscriptions to cover this deficit amounted to \$16,579.99. To meet this unexpected shortage it was necessary to borrow \$3,000 from the bank on a three months' note. Had we succeeded in collecting all subscriptions pledged for 1910-11 the receipts from this source would have been \$20,375.32, more than enough to meet the deficit, and it would not have been necessary to use our bank credit. We have reasons to believe, however, that most of the overdue subscriptions will be paid before the maturity of the \$3,000 note. The budget for 1911-12, including all departments of the Uni-

versity, show an estimated deficit of \$12,326.00, with subscriptions pledged to meet it estimated at \$15,988.36. A copy of the budget for 1911-12 is marked Exhibit Q. At this date it is believed that the estimated student receipts of the budget for 1911-12 will be realized.

Very respectfully yours,

CHARLES W. HOLMES, *Treasurer.*

### REPORT OF THE AMERICAN AUDIT COMPANY.

On October 5, 1911, the American Audit Company submitted the following report to the President and Board of Trustees:

GENTLEMEN: We have prepared and submit herewith the following exhibits, covering the operation of the University for the year ended August 31, 1911:

- EXHIBIT "A"—SCHOOL OF GRADUATE STUDIES,  
For year ended August 31, 1911.
- "B"—COLLEGE OF ARTS AND SCIENCES,  
For year ended August 31, 1911.
- "C"—ARTS AND SCIENCES LIBRARY,  
For year ended August 31, 1911.
- "D"—COLLEGE OF ENGINEERING,  
For year ended August 31, 1911.
- "E"—COLLEGE OF POLITICAL SCIENCES,  
For year ended August 31, 1911.
- "F"—TEACHERS COLLEGE,  
For year ended August 31, 1911.
- "G"—DEPARTMENT OF LAW,  
For year ended August 31, 1911.
- "H"—DEPARTMENT OF MEDICINE,  
For year ended August 31, 1911.
- "I"—DEPARTMENT OF DENTISTRY,  
For year ended August 31, 1911.
- "J"—INCOME AND EXPENDITURE ACCOUNT,  
For year ended August 31, 1911.
- "K"—SECURITIES EXHIBITED TO US OCTOBER 5, 1911, AND STATED  
BY THE TREASURER OF THE UNIVERSITY TO BE A PART OF  
ITS ENDOWMENTS.

#### ENDOWMENTS.

The endowments are not shown on the books of the University; consequently we were not able to verify them. We did, however, verify the cash on hand in these funds as at August 31, 1911, finding it to be



\$4,398.60; we also verified that the securities as noted on Exhibit "K" were on hand and properly accounted for.

Respectfully submitted,

[SEAL.]

THE AMERICAN AUDIT COMPANY.  
By OTTO LUEBKERT,  
*Resident Vice-President.*

Approved:

F. W. LAFRENTZ, *President.*

Attest:

A. F. LAFRENTZ, *Secretary.*

#### EXHIBIT "A."

#### SCHOOL OF GRADUATE STUDIES.

##### *Income.*

Tuition .....	\$2,715.02	
Matriculation .....	71.00	
Laboratory .....	141.66	
		<hr/> \$2,927.68

##### *Expenditure.*

Salaries .....	\$2,339.92	
Stationery and Printing.....	12.02	
Miscellaneous .....	14.70	
		<hr/> 2,366.64

Net Income transferred to Income and Expenditure Account—Exhibit J .....	<hr/> \$561.04
--	----------------

#### EXHIBIT "B."

#### COLLEGE OF ARTS AND SCIENCES.

##### *Income.*

Tuition .....	\$16,057.83	
Matriculation .....	661.00	
Laboratory .....	1,412.31	
Contributions from Columbian Women.....	300.00	
		<hr/> \$18,431.14

##### *Expenditure.*

Salaries .....	\$15,616.10	
Stationery and Printing.....	254.17	
Advertising .....	224.00	

## REPORT OF THE TREASURER.

9

Laboratory .....	\$518.34	
Miscellaneous .....	158.39	
		<u>\$16,771.00</u>
Net Income transferred to Income and Expenditure Account—Exhibit J .....		<u>\$1,660.14</u>

## EXHIBIT "C."

## ARTS AND SCIENCES LIBRARY.

*Income.*

Library fees .....	\$1,266.00
--------------------	------------

*Expenditure.*

Books and Supplies .....	\$875.04	
Salaries .....	849.94	
		<u>1,724.98</u>
Net Loss transferred to Income and Expenditure Account—Exhibit J .....		<u>\$458.98</u>

## EXHIBIT "D."

## COLLEGE OF ENGINEERING.

*Income.*

Tuition .....	\$13,809.15	
Matriculation .....	340.00	
Laboratory .....	948.75	
		<u>\$15,103.90</u>

*Expenditure.*

Salaries .....	\$8,649.60	
Stationery and Printing .....	14.63	
Laboratory .....	97.43	
Miscellaneous .....	81.55	
		<u>8,843.21</u>
Net Income transferred to Income and Expenditure Account—Exhibit J .....		<u>\$6,260.69</u>



## EXHIBIT "E."

## COLLEGE OF POLITICAL SCIENCES.

*Income.*

Tuition .....	\$4,317.00	
Matriculation .....	236.00	
Contributions .....	5,410.00	
		<u>\$9,963.00</u>

*Expenditure.*

Salaries .....	\$7,518.28	
Stationery and Printing.....	151.37	
Advertising .....	24.50	
Rent .....	1,800.00	
Janitors .....	325.00	
Fuel .....	153.75	
Light .....	115.12	
Miscellaneous .....	158.80	
		<u>10,246.82</u>

Net Loss transferred to Income and Expenditure Account—

Exhibit J. .... \$283.82

## EXHIBIT "F."

## TEACHERS COLLEGE.

*Income.*

Tuition .....	\$3,474.23	
Matriculation .....	257.00	
Laboratory .....	54.50	
		<u>\$3,785.73</u>

*Expenditure.*

Salaries .....	\$3,649.92	
Stationery and Printing.....	54.69	
Miscellaneous .....	8.25	
		<u>3,712.86</u>

Net Income transferred to Income and Expenditure Account—Exhibit J .....

\$72.87

## EXHIBIT "G."

## DEPARTMENT OF LAW.

*Income.*

Tuition .....	\$28,185.00
Matriculation .....	694.00
Library .....	969.00
Rent of Hall.....	100.00
Contribution for Ellsworth Prize.....	25.00
	<hr/> \$29,973.00

*Expenditure.*

Salaries .....	\$17,796.86
Stationery and Printing.....	362.41
Advertising .....	898.09
Library .....	795.05
Janitors .....	169.67
Light .....	228.41
Ellsworth Prize .....	25.00
Miscellaneous .....	335.41
Transferred to General Funds:	
Rent of Law Hall as per agreement.....	\$5,000
For General Expenses of University....	2,000
	<hr/> 7,000.00
	<hr/> 27,610.90

Net Income transferred to Income and Expenditure Account—Exhibit J .....	<u>\$2,362.10</u>
--	-------------------

## EXHIBIT "H."

## DEPARTMENT OF MEDICINE.

*Income.*

Tuition .....	\$12,139.96
Matriculation .....	155.00
Library .....	339.00
Laboratory .....	181.77
Rent of Microscopes.....	125.00
Sale of Microscopes.....	120.00
Rent of Hall.....	54.00
Contribution, Dr. W. O. Owen.....	283.28
	<hr/> \$13,398.01



*Expenditure.*

Salaries .....	\$5,565.58
Stationery and Printing.....	572.50
Advertising .....	361.25
Library .....	106.76
Laboratory .....	284.73
Faculty Prize .....	50.00
Janitors .....	1,149.00
Fuel .....	963.52
Light .....	865.50
Alterations and repairs to Medical Hall.....	1,320.41
Miscellaneous .....	628.97
	<hr/> \$11,808.22

Net Income transferred to Income and Expenditure Account—Exhibit "J" ..... \$1,529.79

## EXHIBIT "L"

## DEPARTMENT OF DENTISTRY.

*Income.*

Tuition .....	\$4,103.88
Matriculation .....	110.00
Laboratory .....	16.00
Rent of Microscopes.....	109.00
Infirmary .....	584.57
	<hr/> \$4,923.45

*Expenditure.*

Salaries .....	\$2,644.89
Stationery and Printing.....	19.12
Advertising .....	45.00
University Prize .....	25.00
Supplies, etc .....	490.74
Miscellaneous .....	103.19
	<hr/> 3,327.94

Net Income transferred to Income and Expenditure Account—Exhibit "J" ..... \$1,595.51

EXHIBIT "J."

INCOME AND EXPENDITURE ACCOUNT.

<i>Expenditure.</i>		<i>Income.</i>	
Arts and Sciences Library, Exhibit C.....		School of Graduate Studies, Exhibit A.....	\$561.04
College of Political Sciences, Exhibit E.....		College of Arts and Sciences, Exhibit B.....	1,666.14
Administration and General Expenses:		College of Engineering, Exhibit D.....	6,260.66
Salaries.....	\$10,372.59	Teachers College, Exhibit F.....	72.87
Stationery and Printing.....	1,130.54	Department of Law, Exhibit G.....	2,362.10
Postage.....	134.72	Department of Medicine, Exhibit H.....	1,530.79
Telegraph and Telephone.....	588.90	Department of Dentistry, Exhibit I.....	1,595.51
Rent:		Rent of Law Hall, as per agreement.....	5,000.00
Storage Building.....	\$360.00	Contributions for General Expenses.....	9,169.99
1528-38 Eye St., N. W.....	2,499.96	Contribution from Department of Law, for General Expenses.....	2,000.00
Contribution Athletic Association.....	2,859.96	Income from Cortecan Endowment Fund.....	867.48
Commencement Expenses.....	500.00	Income from other sources:	
Adding machine, file cases, tables, etc.....	928.13	Rent of Fraternity Rooms.....	\$360.00
Advertising.....	481.86	Bonding Fees.....	39.00
Rent of Law Hall.....	441.00	Graduation Fees.....	1,908.00
Alterations and repairs to Law Hall:	2,300.04	Matriculation Fees, Veterinary College.....	100.00
Paid out of the \$5,000 received from Department of Law for rent of Law Hall.....	2,408.16	Miscellaneous.....	92.00
Taxes.....	349.22		
University Hall:			
Janitors.....	\$1,308.09		
Fuel.....	778.15		
Light.....	547.88		
Alterations and repairs.....	375.72		
Other General Expenses.....	3,009.84		
	1,517.94		
Net income for the year ended August 31, 1911....	27,022.84		
	5,812.97		
	<u>\$33,578.61</u>		<u>\$33,578.61</u>



## EXHIBIT "K."

SECURITIES EXHIBITED TO US OCTOBER 5, 1911, AND  
STATED BY THE TREASURER OF THE UNIVERSITY TO  
BE A PART OF ITS ENDOWMENTS.

American Telephone and Telegraph Co. stock:	
6 shares; par value, \$100.00 each.....	\$600.00
Washington Sanitary Improvement Co. stock:	
130 shares; par value, \$10.00 each.....	1,300.00
Chicago, Rock Island & Pacific R. R. Co. bonds, 1934:	
24 bonds; par value, \$1,000.00 each.....	24,000.00
Chicago, Rock Island & Pacific R. R. Co. bonds, 2002:	
1 bond; par value, \$5,000.00.....	5,000.00
5 bonds; par value, \$1,000.00 each.....	5,000.00
Riggs Realty Co., of New York, bonds, 1940:	
3 bonds; par value, \$1,000.00 each.....	3,000.00
City of New Brunswick, N. J., sinking fund bonds, 1922:	
3 bonds; par value, \$1,000.00 each.....	3,000.00
City of Medford, Mass., sewerage loan bonds, 1924:	
3 bonds; par value, \$1,000.00 each.....	3,000.00
Potomac Electric Power Co. consolidated bonds, 1936:	
10 bonds; par value, \$1,000.00 each.....	10,000.00
Columbia Railway Co. extension bonds, 1914:	
1 bond; par value, \$500.00.....	500.00
Norfolk & Washington Steamboat Co. bonds, 1931:	
2 bonds; par value, \$100.00 each.....	200.00
Austen Coal and Coke Co. bonds, 1926:	
1 bond; par value, \$1,000.00.....	1,000.00
Washington Sanitary Improvement Co.:	
12 real estate notes, \$1,000.00 each.....	\$12,000.00
2 real estate notes, 2,000.00 each.....	4,000.00
	<hr/> 16,000.00
Thomas R. Marshall:	
1 real estate note.....	5,000.00
Lewis Spectre:	
1 real estate note.....	200.00
Wm. S. and Susan L. Dewhirst:	
1 real estate note.....	500.00
Robert R. Mahorney:	
1 real estate note.....	3,000.00
Agnes Plunkett:	
2 real estate notes, \$100.00 each.....	200.00
	<hr/> \$81,500.00

## SUPPLEMENTARY REPORT.

## EXHIBIT "L."

## HOSPITAL.

The receipts from the Hospital Superintendent during the year have been.....	\$40,664.90
The expenditures during the year have been.....	40,410.51
	<hr/>
Balance unexpended August 31, 1911.....	\$254.39
	<hr/> <hr/>

## EXHIBIT "M."

## ASSETS AND LIABILITIES.

*Assets.*

## Property Used for Educational Purposes.

Medical Hall and Hospital, 24,536 square feet, valued at....	\$403,599.93
Books in University Library.....	18,181.65
Books in Law Library.....	17,187.61
Books in Medical Library.....	2,004.47
Equipment in Laboratories, museum, and art collections and furniture in buildings.....	74,988.81
	<hr/>
	\$515,962.47

*Endowments.*

As stated in Exhibit N.....	130,533.61
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*Unproductive Property.*

## Congressional Grant lots as follows:

Lots 9, sq. 16; 8, 10, 13, sq. 13; 8, sq. 23; 2, sq. W. of 23; 2, sq. 88; 5, sq. 83; containing 119,997 square feet, valued at.....	\$26,864.40
Lot 148, sq. 672, containing 3,000 sq. feet, valued at .....	3,000.00
	<hr/>
	\$29,864.40

*Miscellaneous.*

Withdrawal value, perpetual insurance deposits...	\$1,721.25
Unpaid tuitions, Department Arts and Sciences, 1910-1911.....	442.59



Petty Cash Fund in hands of cashier.....	\$500.00	
Cash balance August 31, 1911.....	493.86	
		<u>\$3,157.70</u>
		<u><u>\$679,518.18</u></u>

*Liabilities.\**

Notes payable, interest at 6%, due December 1, 1911.....	\$3,000.00	
Taxes on real estate to August 31, 1911, accrued but not due	90.00	
Accounts payable .....	4,393.80	
Building, Site and Enlargement Fund, payments not waived.	6,483.98	
Alumni Hall Fund, payments not waived.....	910.00	
		<u>\$14,877.78</u>

## EXHIBIT "N."

## ENDOWMENT FUNDS.

*Investments.*

## General—Corcoran Endowment:

Real estate notes, Washington Sanitary Improvement Co., twelve, \$1,000 each, two at \$2,000 each.....	\$16,000.00
--	-------------

## Special—Investment "A" Endowments:

Six shares American Telephone and Telegraph Co. stock.....	\$600.00
130 shares Washington Sanitary Improvement Co. stock .....	1,300.00
23½ \$1,000 Chicago, Rock Island and Pacific R. R. first and refunding mortgage bonds of 1934, at 4%.....	23,500.00
Lot 12, sq. 13 (not improved).....	8,600.00
	<u>34,000.00</u>

## Special—Powell Endowment:

Residence, 1707 I Street, valued at.....	40,000.00
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## Special—Cooper Endowment:

One \$5,000 Chicago, Rock Island and Pacific R. R. collateral trust bond of 2002, 4%.....	\$5,000.00
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\* The mortgage note for \$350,000, secured on the property now used by the Medical and Dental Departments and the Hospital, executed by the Trustees to secure certain endowment and other trust funds, is not listed in the above schedule of liabilities.

Note, Thomas R. Marshall, secured by deed of trust, on part of lot 5, sq. 253, and lot 70, block 30, Columbia Heights, 5%.....	\$5,000.00	
Note, Lewis Spectre, secured by deed of trust on lot 64, sq. 1017, 5%.....	200.00	
Cash, uninvested, Washington Loan and Trust Co. ....	29.17	
		10,229.17
Special—National Park Seminary Endowment:		
One-half one \$1,000 Chicago, Rock Island and Pacific R. R. Co. first and refunding mortgage bond of 1934, 4% .....		500.00
Special—Ordronaux Endowment:		
Five \$1,000 Chicago, Rock Island and Pacific R. R. Co. collateral trust bonds of 2002, 4%.....		5,000.00
Special—Woodbury Hospital Endowment:		
Three \$1,000 coupon bonds, Riggs Realty Co., of N. Y., 5% secured by deed of trust on office building S. E. corner of 15th and G Streets .....	\$3,000.00	
Three \$1,000 sinking fund bonds, City of New Brunswick, N. J., 4%.....	3,000.00	
Three \$1,000 Medford sewerage loan bonds of the City of Medford, 4%.....	3,000.00	
Note, Wm. S. and Susan L. Dewhirst, 5% secured by deed of trust on lot 9, sq. 243...	500.00	
Cash uninvested, National Savings and Trust Co. ....	83.42	
		9,583.42
Special—Laura M. Tree Hospital Endowment:		
Nine \$1,000 Potomac Electric Power Co., 5% consolidated gold mortgage coupon bonds of 1936. Cost 99 $\frac{7}{8}$ .....	\$8,988.75	
One \$500 Columbia Railway Co., 5% extension mortgage gold coupon bond of 1914...	505.63	
Cash uninvested, National Savings and Trust Co. ....	220.62	
		\$9,715.00
Special—Congressional Professorship of English:		
Note, Robert R. Mahorney, dated May 10, 1911, on or before three years, 5% secured by deed of trust on original lot 5, sq. 83....	\$3,000.00	
One \$1,000 Potomac Electric Power Co., 5% consolidated gold mortgage coupon bond of 1936, cost par.....	1,000.00	



Two \$100 Norfolk & Washington Steamboat Co., 5% coupon bonds of 1931. Cost 104, No. 783/784 .....	\$208.00	
Cash uninvested, Washington Loan and Trust Co. ....	98.02	
		\$4,306.02
Special—J. MacBride Sterrett, Jr., Memorial Medal Fund: Two notes, \$100 each, Agnes Plunkett, dated February 14, 1911, three years, 5½%, secured by deed of trust on part of lot 12, sq. 11, Meridian Hill (2369 Champ- lain Avenue) .....		200.00
Special—Gardiner G. Hubbard Memorial Prize: One \$1,000 bond, Austen Coal and Coke Co. first con- solidated mortgage 5% gold, of 1926. ....		1,000.00
		<u>\$130,533.61</u>

## EXHIBIT "O."

## ENDOWMENT FUNDS.

## RECEIPTS AND EXPENDITURES.

*Powell Fund:*

Balance August 31, 1910.....	\$600.05	
Receipts income .....	2,108.30	
		\$2,708.35
Expended income .....	1,023.88	
Balance August 31, 1911.....		\$1,684.47

*National Park Seminary Fund:*

Receipts income .....	\$26.63	
No expenditures .....		
Balance August 31, 1911.....		26.63

*Alumni Hall Fund:*

Balance August 31, 1910.....	\$137.06	
Receipts income .....	2.75	
		\$139.81
No expenditures .....		
Balance August 31, 1911.....		139.81

*Cooper Fund:*

Balance principal August 31, 1910.....	\$29.17	
Balance income August 31, 1910.....	134.98	
Receipts income .....	470.29	
	<hr/>	\$634.44
Expended income .....		5.00
		<hr/>
Balance August 31, 1911.....		\$629.44

*Ordronaux Fund:*

Receipts income .....	\$201.40	
Expended income .....	110.00	
	<hr/>	
Balance August 31, 1911.....		91.40

*Investment "A" Fund:*

Balance August 31, 1910.....	\$565.93	
Receipts income .....	1,077.94	
	<hr/>	\$1,643.87
Expended income .....	407.50	
	<hr/>	
Balance August 31, 1911.....		1,236.37

*Woodbury Fund:*

Receipts principal .....	\$3,583.33	
Expended principal .....	3,500.00	
	<hr/>	
Balance principal August 31, 1911.....		\$83.33
Receipts income .....	\$207.59	
Expended income .....	207.21	
	<hr/>	
Balance income August 31, 1911.....		0.38
	<hr/>	
Total balance August 31, 1911.....		83.71

*Corcoran Fund:*

Receipts principal .....	\$16,000.00	
Expended principal .....	16,000.00	
	<hr/>	
Receipts income .....	1,176.37	
Expended income .....	1,176.37	
	<hr/>	

*Tree Fund:*

Receipts principal .....	\$0,715.00	
Expended principal .....	9,494.38	
	<hr/>	
Balance principal August 31, 1911.....		\$220.62



Receipts income .....	\$226.24	
Expended income .....	124.37	
	<hr/>	
Balance income August 31, 1911.....	\$101.87	
	<hr/>	
Total balance August 31, 1911.....		\$322.49
<i>Congressional Professorship of English Fund:</i>		
Receipts principal .....	\$1,306.02	
Expended principal .....	1,208.00	
	<hr/>	
Balance principal August 31, 1911.....	\$98.02	
Receipts income .....	\$25.00	
Expended income .....	21.34	
	<hr/>	
Balance income August 31, 1911.....	3.66	
	<hr/>	
Total balance August 31, 1911.....		101.68
<i>Chapman Fund:</i>		
Receipts income .....	\$82.60	
No expenditures .....		
	<hr/>	
Balance income August 31, 1911.....		\$82.60
<i>Hubbard Fund:</i>		
Receipts income .....	\$50.00	
Expended income .....	50.00	
	<hr/>	
		<hr/>
		\$4,398.60
		<hr/>

## Summary.

Balance of principal August 31, 1911.....	\$431.14	
Balance of income August 31, 1911.....	3,967.46	
	<hr/>	
		\$4,398.60
		<hr/>

## EXHIBIT "P."

## ACCOUNTS PAYABLE PRIOR TO SEPTEMBER 1, 1910.

*Accounts Payable.*

George B. Post & Sons.....	\$2,500.00
Columbia National Bank, principal and interest....	3,238.09
1910, unpaid salaries, University and Hospital....	2,377.25

W. K. Reeve, repairs I Street House and Chemical Laboratory.....	\$4,866.73
American Audit Company, old account.....	431.80
Judd & Detweiler, Harlan printing and catalogue..	2,327.80
Merchants' Transfer and Storage Company, hauling	926.00
Wages of laborers, packing and moving.....	386.73
Unpaid accounts for 1910, Hospital and other supplies.....	4,774.92
Dr. R. D. Harlan, settlement.....	1,500.00
Dulin and Martin Company.....	65.47
Dodson & Hodgson.....	5.25
Anna L. Rose.....	20.00
Potomac Electric Power Company.....	92.41
Washington Gas Light Company.....	40.68
J. D. McGonigle Company.....	75.00
Total.....	\$23,628.13

*Payments on Above.*

George B. Post & Sons, on account.....	\$1,500.00
Columbia National Bank, in full.....	3,238.09
1910 salaries, in full.....	2,377.25
W. K. Reeve, in full.....	4,866.73
American Audit Company, on account.....	100.00
Judd & Detweiler, on account.....	465.80
Merchants' Transfer and Storage Company, in full	926.00
Wages of laborers, in full.....	386.73
Unpaid accounts, 1910, in full.....	4,774.92
Dr. R. D. Harlan, on account.....	300.00
Dulin and Martin Company, in full.....	65.47
Dodson & Hodgson, in full.....	5.25
Anna L. Rose, in full.....	20.00
Potomac Electric Power Company, in full.....	92.41
Washington Gas Light Company, in full.....	40.68
J. D. McGonigle Company, in full.....	75.00
Total .....	\$19,234.33
Balance due .....	\$4,393.80



*Collections Applicable to the Payment of Old Accounts*

Cash on hand August 31, 1910.....	\$1,613.21
From Mt. Vernon Alcove to pay its accounts payable prior to August 31, 1910.....	113.96
Old students' accounts collected.....	4,842.86
Old Hospital accounts collected.....	1,797.29
Lecture Hall rents, old accounts.....	100.00
Perpetual insurance deposits returned..	\$1,282.50
Term insurance rebate.....	56.40
	<hr/> 1,338.90
Sale of old furniture.....	53.28
Payments on \$15,000 fund.....	7,653.00
	<hr/>
Total.....	<u><u>\$17,512.50</u></u>

Total payments on old accounts payable.....	\$19,234.33
Total collections applicable to old accounts.....	<u>17,512.50</u>
Difference, advanced from current budget.....	<u><u>\$1,721.83</u></u>
Balance due, accounts payable.....	\$4,393.80
Amount due current budget.....	<u>1,721.83</u>
Total indebtedness August 31, 1911.....	<u><u>\$6,115.63</u></u>

*Details of Total Indebtedness.*

George P. Post & Sons.....	\$1,000.00
American Audit Company.....	331.80
Judd & Detweiler.....	1,862.00
Dr. R. D. Harlan.....	1,200.00
Current budget advance.....	<u>1,721.83</u>
Total.....	<u><u>\$6,115.63</u></u>

EXHIBIT "Q."  
TENTATIVE BUDGET, SHOWING INCOME AND EXPENSES OF THE UNIVERSITY FOR THE YEAR  
1911-12.

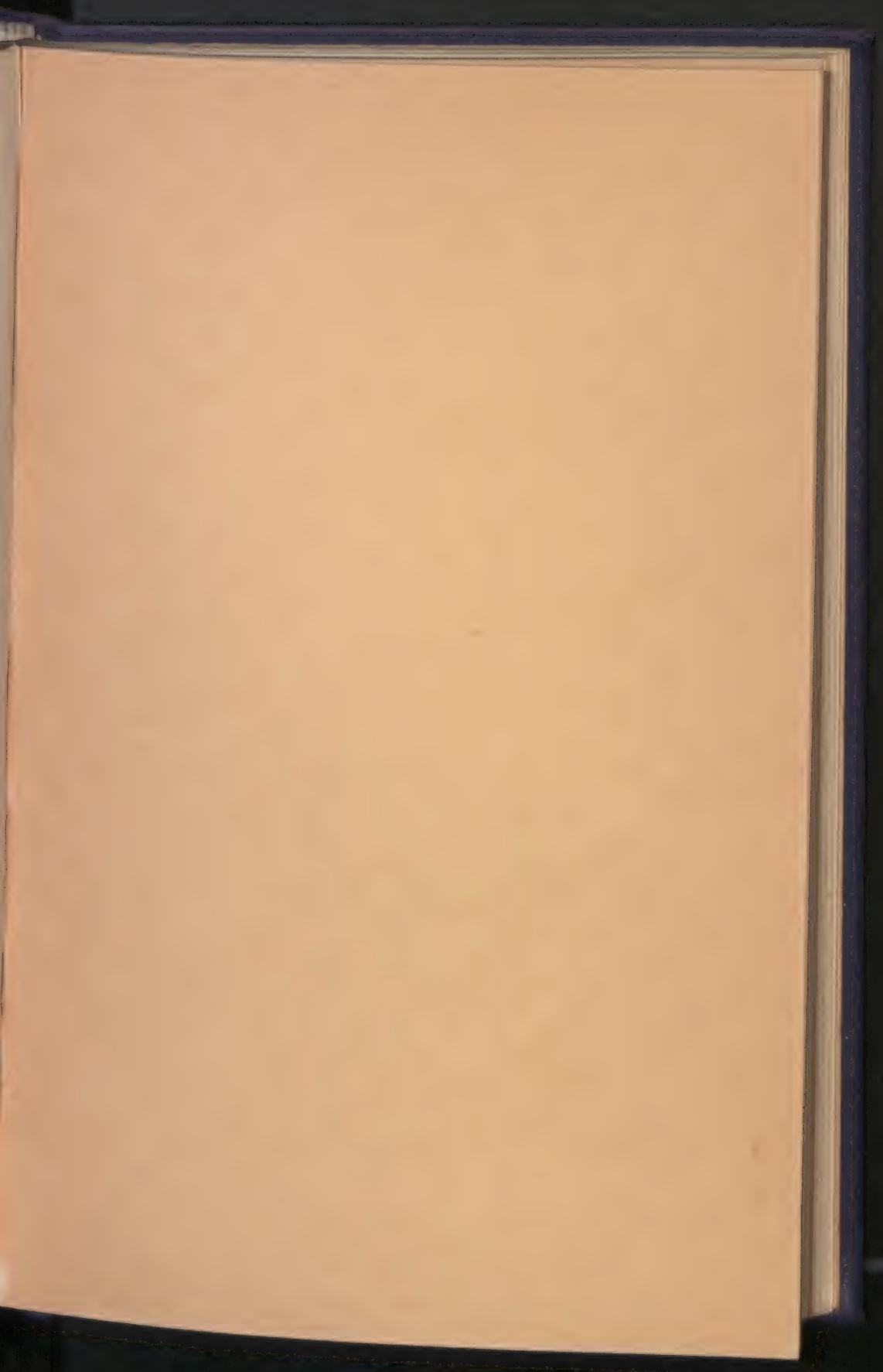
GRADUATE.			
<i>Income.</i>		<i>Expenses.</i>	
From students .....	\$3,000	Salaries .....	\$2,250
		Various .....	75
			<u>\$2,325</u>
ARTS AND SCIENCES.			
From students .....	\$22,000	Salaries .....	\$16,075
Investment A. ....	1,000	Various .....	855
Dr. Gill .....	100		
	<u>\$23,100</u>		<u>\$16,930</u>
ENGINEERING.			
From students .....	\$16,000	Salaries .....	\$9,850
		Various .....	815
			<u>\$10,665</u>
POLITICAL SCIENCES.			
From students .....	\$4,500	Salaries .....	\$7,320
		Various .....	2,010
			<u>\$9,330</u>
TEACHERS COLLEGE.			
From students .....	\$4,000	Salaries .....	\$3,700
		Various .....	105
			<u>\$3,805</u>
LAW DEPARTMENT.			
From students .....	\$27,000	Salaries .....	\$20,446
		Various .....	8,490
			<u>\$28,936</u>



MEDICAL DEPARTMENT.			
From students .....	\$12,236	Salaries .....	\$10,085
Veterinary Department .....	582	Equipment .....	750
A. & S. heat and light .....	500	University assessment .....	500
		Medical Hall expenses .....	5,000
	\$13,318		\$16,335
DENTAL DEPARTMENT.			
From students .....	\$7,584	Salaries .....	\$3,790
		University assessment .....	500
	\$7,584		\$4,290
HOSPITAL.			
From Superintendent .....	\$42,403	University assessment .....	500
		Superintendent disbursements .....	\$41,500
	\$42,403		\$42,000
GENERAL EXPENSES.			
Veterinary matriculations .....	\$175	Administration salaries .....	\$9,400
Pharmacy matriculations .....	150	University Building expenses .....	6,080
Income, Congressional Endowment .....	200	Library, salaries and books .....	1,400
Income, Corcoran Endowment .....	800	Various .....	9,360
Transfer from Medical, Dental and Hospital	1,500		
Diploma fees, all departments .....	1,200		
Transfer from Law Department .....	3,000		
Miscellaneous .....	200		
	\$7,225		\$26,240

## SUMMARY.

Total expenses brought down .....	\$161,456.00
Total receipts brought down .....	148,130.00
Educational deficit .....	\$12,326.00
Subscriptions to meet this deficit, C. P. S. ....	\$7,400.00
Subscriptions to meet this deficit, General .....	8,588.36
	<u>\$15,988.36</u>







VOLUME X

NUMBER 4

# The George Washington University Bulletin

DECEMBER, 1911.



PUBLISHED BY THE UNIVERSITY AT WASHINGTON, D. C., IN MARCH,  
JUNE, OCTOBER, AND DECEMBER.

Entered October 6th, 1904, at Washington, D. C., as Second-class  
matter under Act of Congress of July 16th, 1894.





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WASHINGTON, D. C.  
PRESS OF JUDD & DETWEILER, INC.  
1911

# THE GEORGE WASHINGTON UNIVERSITY.

## ITS PLACE IN THE COMMUNITY.

To correct mistakes and to present the actual situation of The George Washington University at the National Capital, it has been deemed well to publish a statement of the importance of the maintenance and development of the institution.

It has been said more than once that it is unnecessary and impolitic to persist in the maintenance of a university in Washington, with undergraduate and professional schools, when there are throughout the country already more such schools than we need. To this the reply is made that the conditions existing in Washington are such that an institution like The George Washington University, with its schools, is particularly needed in the capital city of the nation. This country, without established religion and without a dominating church, should have there a non-sectarian, non-partisan university, with freedom of thought and unrestricted teaching. Sectarian teaching should cease at the portals of a university.

The sectarian universities already existing or recently established in Washington do not meet the requirements of this country or its seat of government. Their establishment is a testimony to the astuteness of the ecclesiastics who founded them for educational and other purposes. The unsectarian and general educational foundations and associations which have kept the field clear in Washington for these institutions have not met the needs and preferences of the greater portion of the nation behind them. Since the aid given by legislative and municipal bodies in other places has been wanting to The George Washington University, it is hoped that private benefactions will materially assist in the maintenance of the institution, and prevent the heights about Washington from being occupied only by antagonistic sectarian universities.

CHARLES H. STOCKTON,

*President.*

---

PRESIDENT CHARLES H. STOCKTON.

SIR: I have the honor of submitting to you the following argument for the endowment of The George Washington University:

The George Washington University is the only non-sectarian institution of higher learning in the District of Columbia. As such it ministers to a constant local need, and is of value throughout the coun-



try. If adequately endowed, it would take permanent rank among the leading universities of the world as an exceptionally individual and helpful power for good.

The need for the University arises from a compelling demand in the District of Columbia for higher instruction. It is complicated, and to some extent hidden, by the existence in the District of more colleges and universities than the population warrants. Some of these might properly be termed secondary schools; others represent private business enterprise. Such institutions cannot take the place of The George Washington University, and are in no sense rivals; but by exercising a tendency toward lowering the standard of scholarship throughout the District they enhance the need for a university which insists on proper requirements for admission and for graduation. Except for these, the only institutions actively engaged with The George Washington University in meeting the local demand are Roman Catholic: Georgetown University, The Catholic University of America, and, less prominent than these two, Trinity College. The first two admit men; the last, women. Since all three are avowedly sectarian in their announcements, particularly as regards work prescribed for undergraduates, they do not satisfy the local demand. No distinctly denominational institution can.

The local demand is peculiarly insistent. As regards clientage, a college situated in a small town might ordinarily be located just as serviceably in some neighboring town. It receives from the local population only a few students, and these few could under necessity go elsewhere. Colleges are so plentifully scattered throughout the country that many a well-known one might—barring its scholarship foundations—be swept from the face of the earth with loss perhaps to mankind, but without appreciable loss to the individual student of his only opportunity to secure a college education. Were an urban college moved or done away with thus summarily there would be greater loss to the individual student—regarding him always impersonally as the representative of a class—because the population of a city cannot readily be matched elsewhere, and is of itself sufficient to furnish more than an incidental part of the total student registration. In cities other than Washington, however, all but a comparatively few of the students are dependent financially on their parents, and might, under stress of necessity and at the cost of increased sacrifice by their parents, go elsewhere. In Washington the student body is of a unique character, because the city is the seat of the National Government—a necessarily unique distinction—and because the Government, both directly and indirectly, offers employment under conditions not merely permitting, but encouraging, study. Approximately half of the students in The George Washington University are in Government employ. A full seventy-five per cent are wage-earners, bound fast to the city by their

source of income, equally incapable of taking up residence elsewhere or of making the daily journey of an hour to either of the nearest institutions outside of the District—Johns Hopkins, at Baltimore, or St. Johns, at Annapolis. Such students compose a fixed clientage.

In evidence that there is a fixed clientage, and as an index to its extent, it may be noted that during the academic year 1910-11 the University registered 1,277 students—1,095 men and 182 women—in spite of the fact that developments during the preceding year had made public a seemingly desperate condition of finance. In spite of wretched truths and scandalous rumors industriously circulated by ill-wishers of the University, at a time when buildings which had long stood an outward manifestation of its existence were being sold for debt and abandoned, the University opened its doors mainly in hired quarters, with practically no loss in attendance. The students fell roughly into three classes: one quarter, those in private employment; two quarters, those in Government employ; the remaining quarter, children of people living in or near the District. In the first class were attachés of foreign governments—enumerated for convenience in this class—teachers, ministers, lawyers, engineers, musicians, brokers, reporters, salesmen, book-keepers, draftsmen, stenographers, and clerks in banks, hotels, and private offices; in the second there were secretaries of Congressmen, clerks like those in the Capitol and in the Library of Congress, holding office under personal appointment, and the host of departmental clerks serving under the regulations of the Civil Service Commission. These first two classes contribute obviously to a fixed clientage; the third class, children of people living in or near the District, less obviously. That the third class, however, registered in the University at such a crisis in its affairs shows them to belong, if not to a fixed clientage, at least to an assured one. Roughly, but with sufficient accuracy for practical purposes, it may be estimated that the University has an assured annual attendance of 1,200.

This assured clientage does not represent in full the natural local demand. The high schools of the city graduated in 1910-11 404 students, of whom 138 went to college. Of those who went, only 33 boys and 19 girls attended local colleges. The other 62 per cent went elsewhere. Probably a yet greater proportion of private school graduates went elsewhere. If the University were better endowed and could offer more advantages, it would attract more high school graduates, more Government employees, and more students generally from the community. In 1910 the influx to the Executive Civil Service of young appointees was 1,473—1,130 men and 343 women; the total number in the service at Washington was 33,057—about 70 per cent men. The white population of the District, according to the Federal Census of 1910, was 236,128, but this necessarily omitted workers in the city who made their homes in neighboring Maryland and Virginia counties, an



ever-increasing number whose children form a considerable element in the student body. The population of Washington evades statistics; but this is of the less consequence, since statistics of general population never adequately represent the student population, which in one community may greatly exceed that in another community of the same numbers. In Washington the population is composed largely of Government employees of all grades and forms of service, and to a not inconsiderable extent of the families left by men no longer living who have held Government positions. This makes a population of intelligence and of ambition, but of comparatively little wealth—just the population to demand education for their children and to patronize a local institution.

The demand is growing, and is certain to continue. The students graduated by the high schools of the city in 1910-11 showed an increase over those graduated in the preceding year of 19 per cent; and the number of graduates attending colleges of 17 per cent. The number of employees working under the regulations of the Civil Service Commission at Washington in 1910 showed an increase over the number in 1906 of 25 per cent; and during those five years, 1906-10 inclusive, the average annual influx of new appointees was 1,851. The white population of the District in 1910 showed an increase over the population in 1900 of 23 per cent. This general increase in numbers is as certain to continue as the nation is; for with the growth of the nation the population of its capital and the number of employees doing its business must grow. Some of the elements in the population are of a transitory, shifting nature, but not all; and those removed by political changes are replaced by others. The mass remains. Moreover, its character is to a remarkable extent assured. Such assurance of increasing and constant demand cannot be found anywhere else in the country.

The service of the University to individual students extends beyond the locality throughout the country. A rule of the Civil Service Commission requires that "Certification for appointment in the departments or independent offices at Washington shall be so made as to maintain, as nearly as the conditions of good administration will warrant, the apportionment of such appointments among the several States and Territories and the District of Columbia upon the basis of population." This regulation is only one of many influences tending to bring people to Washington, and therefore students to the University, but it is of special interest because it helps in bringing to the University students of exceptional earnestness from all parts of the country. A student from Tennessee, where he had attended college, writes: "Some years ago, at the end of my sophomore year, I was compelled on account of lack of funds to leave college, and shortly thereafter to take up the support of certain members of the family who had become dependent on me. The purpose of continuing and completing my college

course always persisted, but I could never get far enough ahead financially to support myself and those dependent on me during the time necessary to accomplish this. Several years after I left college I learned of George Washington University and its afternoon classes, and sought and obtained employment in the Government service solely for the purpose of taking advantage of these classes." Another from New York writes: "I came to Washington simply because the University is the only institution, so far as I know, that is holding out the chance of obtaining a higher education to the man who is unable to give up his employment—also, the office hours in the Government service lend themselves admirably to this purpose." These two speak for many. Such statistics as are available indicate that 60 per cent of the wage-earners in the University have taken employment as a means of securing an education, and are first and foremost students. The geographical distribution of students registered in the University during the academic year 1910-11 was as follows:

Alabama .....	7	Pennsylvania .....	64
Arizona .....	3	Rhode Island .....	4
Arkansas .....	2	South Carolina .....	11
California .....	5	South Dakota .....	9
Colorado .....	3	Tennessee .....	12
Connecticut .....	9	Texas .....	10
Delaware .....	3	Utah .....	5
District of Columbia.....	486	Vermont .....	13
Florida .....	2	Virginia .....	77
Georgia .....	5	Washington .....	6
Idaho .....	3	West Virginia .....	14
Illinois .....	32	Wisconsin .....	21
Indiana .....	17	Argentina .....	1
Iowa .....	23	Asia Minor .....	1
Kansas .....	17	Austria .....	2
Kentucky .....	12	Canada .....	1
Louisiana .....	4	China .....	9
Maine .....	12	Cuba .....	1
Maryland .....	66	Ecuador .....	1
Massachusetts .....	45	Egypt .....	1
Michigan .....	31	England .....	2
Minnesota .....	23	France .....	2
Mississippi .....	2	Germany .....	3
Missouri .....	20	Greece .....	2
Montana .....	1	Ireland .....	1
Nebraska .....	12	Japan .....	1
New Hampshire .....	5	Mexico .....	1
New Jersey .....	9	Norway .....	1
New Mexico .....	1	Philippine Islands .....	5
New York .....	52	Porto Rico .....	5
North Carolina .....	30	Russia .....	3
North Dakota .....	4	Servia .....	1
Ohio .....	31	Venezuela .....	1
Oklahoma .....	5		
Oregon .....	4		



The possibility of using Government employment merely as a stepping-stone to an education may not appear to a Government official as altogether advantageous to the Service. A service, however, run by the people and for the people may be appropriately used in the education of the people, and no service, public or private, can rightfully expect to hold in its lower grades employees of ability to better themselves elsewhere. A student from Arkansas who writes, "I entered George Washington University because it maintained the only professional school of higher standards which it was practicable for me, being employed, to attend," expresses the attitude of the average student in Government employ toward continuance in the employ: "My primary purpose in studying is to insure my future by preparing for a higher grade of work. Whether I shall remain in Washington is as yet an open question, depending upon opportunities which may offer themselves after I have completed my course in the Law School. If I see a satisfactory opening, I shall remain in the Government service; if, however, possibilities in legal work in my home State, or in any other section, offering better advantages, appear more promising, I shall not hesitate to leave Washington." The attitude is reasonable, and unless the Government should adopt the inconceivable policy of refusing to take into the lower grades employees of promise and of avowed ambition, it must stand prepared for a constant release of those whom it cannot promote. In 1910 there were 1,678 resignations from the Executive Civil Service and 222 promotions made on written examinations. The promotions could not have been rendered possible without study in which the University was undoubtedly of assistance; the resignations may or may not have been occasioned through outside opportunities opened by study: accurate information is inaccessible, but the inference is clear that the University has been of material assistance both to individuals and to the Government. That it attracts to the Government Service men of exceptional ambition and consequent promise whom the Service cannot always hold within its ranks may be considered by some a doubtful benefit; but that it offers instruction needed by employees of the Government if they are to do their work effectively is undeniably a benefit. Dr. William S. Washburn, of the Civil Service Commission, himself a graduate of the University, writes in "Science," November 3, 1911: "The college man in public service is today essential to the maintenance of efficient and economical administration," and in the same article, "With respect to administrative officers, including secretaries and assistant secretaries of departments, commissioners, heads of bureaus, and other subordinate officers, men with college training are usually selected for appointment. \* \* \*

It is in the field of applied science, however, that the demand for university training is imperative." Students recognize the necessity of

such training for advancement in Government service. One in the Law Department writes: "I am an examiner in the Patent Office, and a law training is getting to be necessary for advancement to the responsible positions in that office. I have no present intention of leaving Washington or the Patent Office." Another, a resident of Michigan, writes: "My purpose is to advance myself in geology and remain in the United States Geological Survey." Not infrequently employees are sent to the University by the heads of bureaus. A graduate of Annapolis, for instance, writes: "Sent to George Washington University by orders of Navy Department for instruction in chemistry and physics, under the Bureau of Ordnance;" another, "I was ordered to my present duty, and one of the requirements thereof was that I take a course in law." The University is thus of acknowledged assistance to the Government in providing instruction for its employees.

The task of The George Washington University is to meet the local need by which it was originally brought into existence—a need greater now than ever, and constantly growing. If it can be enabled to do this thoroughly it will ultimately take rank among the most valuable institutions of learning in the country, because its location in Washington gives it an individuality distinct from the conventional college and advantages equally distinct. The character of its clientage is such as to ensure a nucleus to the student body of earnest men and women of exceptional maturity and purpose anxious to devote their hours after work and their wages after payment of living expenses to study. The presence of these students, frequently obliged to take seven or eight years in completing a four-years' course, is an unusual incentive to scholarship. Other universities have among their students those who are paying their own way, but not in the same numbers or of a quality tested by the Civil Service examinations. Neither have they, over and beyond their own facilities, such museums, laboratories, and libraries as are rendered available to students in Washington: the National Museum and the Army Medical Museum; the Hygienic Laboratory, and the laboratories of the Bureau of Standards, the Department of Agriculture, and the Bureau of Mines; the libraries of the Department of Agriculture, the Department of Education, the Surgeon General's Office, the Supreme Court, the Department of Justice, and the Congressional Library. Nor can they hope for like opportunity of inspiring and fostering interest through extra-curriculum lectures by world-known men. A great advantage accruing to The George Washington University comes from the dominating influence in the city of Government business. In Washington, as elsewhere, men talk shop; but in Washington the shop is not the stock market, nor yet ancient history. Dealing with matters of general and live interest, it creates an atmosphere both academic and practical.



The peculiar advantages of Washington as a site for a University have attracted to it already so many institutions of more or less learning as to introduce undesirable competition, to the injury of scholarship standards and ideals. Congress is annually petitioned to found other institutions: in the first session of the present (62d) Congress it was the United States University; in the present (second) session it is the University of the United States—two distinct and very different proposals supported by different groups of people. No other institution can take over the funds of The George Washington University, which, though inadequate for effective work, entail continued existence. No newly-established institution can hope to receive a charter so unrestricted as the one granted to The George Washington University in 1821. No institution could be more completely freed from political or sectarian influences. For all these reasons, and because the University is already at work with a clientage attached to it, everybody interested in establishing helpful order and true ideals in the education of the District of Columbia should give it generous support. The local clientage of the University is not wealthy. The graduates are not. The people of wealth drawn to the city by official duties or social desires, and most obviously representative of it, are frequently, both in sentiment and in literal fact, representative of other places. All this tends to render the financial situation difficult, at the same time that it must strengthen an appeal from the University on people of sympathetic foresight and broad interest.

RICHARD COBB.

*Secretary.*

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PRESIDENT CHARLES H. STOCKTON.

SIR: As secretary of the General Alumni Association, I have the honor to submit the following statements:

The charter of the University was granted by Congress in 1821, and the first session of the College Department opened in January, 1822. The first commencement was held in 1824, at which time the degree of Bachelor of Arts was conferred upon three graduates. During the ninety years of the existence of the University, 7,678 degrees have been conferred upon 6,171 persons. I keep a card catalogue of all alumni, and in this catalogue I have the addresses of 3,076 graduates, of whom 1,651 reside outside of the District of Columbia. It is known that about 1,300 graduates are dead, and information is lacking in regard to the remainder. An examination of the records shows that the graduates are living in every State of the United States and in a number of foreign countries. The geographical distribution of the graduates is as follows:

## ITS PLACE IN THE COMMUNITY.

11

Alabama .....	19	North Dakota .....	4
Arizona .....	7	Ohio .....	69
Arkansas .....	13	Oklahoma .....	23
California .....	62	Oregon .....	19
Colorado .....	34	Pennsylvania .....	93
Connecticut .....	17	Rhode Island .....	6
Delaware .....	3	South Carolina .....	15
Florida .....	6	Tennessee .....	25
Georgia .....	18	Texas .....	37
Idaho .....	16	Utah .....	18
Illinois .....	108	Vermont .....	3
Indiana .....	14	Virginia .....	109
Iowa .....	19	Washington .....	54
Kansas .....	14	West Virginia .....	28
Kentucky .....	26	Wisconsin .....	31
Louisiana .....	10	Wyoming .....	5
Maine .....	10		
Maryland .....	122	Alaska .....	4
Massachusetts .....	80	Hawaii .....	1
Michigan .....	33	Panama .....	4
Minnesota .....	37	Philippines .....	14
Mississippi .....	9	Porto Rico .....	1
Missouri .....	37	Canada .....	3
Montana .....	14	China .....	1
Nebraska .....	7	Cuba .....	1
Nevada .....	8	Ecuador .....	1
New Hampshire .....	13	Germany .....	1
New Jersey .....	19	Japan .....	1
New Mexico .....	10	Mexico .....	4
New York .....	263	Turkey .....	1
North Carolina .....	27		

The Alumni Association is starting a campaign for an Alumni Endowment, and have specified that it shall be for the endowment of a Professorship of Mathematics. Subscriptions have so far been received from the following:

Clara V. Barber, A. B., 1906.  
 Chas. H. Bates, LL. B., 1888; LL. M., 1889.  
 W. C. Bordon, M. D., 1883.  
 C. H. Butler, A. M., 1882.  
 E. A. Byrnes, LL. B., 1887; LL. M., 1888; Ph. D., 1900.  
 Richard Cobb, Secretary of the University.  
 Wm. W. Costin, A. M., 1901.  
 Joseph R. Curl, B. S., 1909; LL. B., 1911.  
 Harold B. Cutler, LL. B., 1908.  
 Arthur W. Davidson, LL. B., 1908; M. P. L., 1909.  
 H. C. Davis, A. B., 1878; A. M., 1881; L. H. D., 1894.  
 Henry W. Draper, B. A. and Teacher's Diploma, 1909.  
 William T. Faulkner, B. S., 1898; A. M., 1900.  
 R. W. France, A. B., 1904.



- Paul Goepel, LL. B., 1868.  
 Sheldon H. Graves, B. S., 1904; M. S., 1906.  
 Edw. J. Gunning, M. D., 1905.  
 Samuel Hoberman, M. D., 1907.  
 Howard L. Hodgkins, A. M., 1883; Ph. D., 1892.  
 Michael J. Holland, LL. B., 1905.  
 James E. Jenks, LL. B., 1897.  
 J. Packard Laird, M. D., 1902.  
 Emery L. Lasier, A. B., 1911.  
 Robert E. Layton, D. D. S., 1902.  
 James Longstreet, LL. B., 1891; LL. M., 1891.  
 F. D. McKenny, LL. B., 1886; LL. M., 1887.  
 Herbert M. Manning, M. D., 1900.  
 John Bassett Moore, LL. D., 1899.  
 Chas. E. Munroe, Ph. D., 1894.  
 Wm. N. Newbold, LL. B., 1875.  
 Theodore W. Noyes, A. M., 1877; LL. B., 1882; LL. M., 1883.  
 Richard E. Pairo, LL. B., 1875.  
 P. Parker Phillips, A. B., 1875.  
 Wm. T. Pierson, B. S., in E. E., 1903.  
 D. Webster Prentiss, B. S., 1895; M. D., 1899.  
 Spencer B. Prentiss, B. S., 1895; LL. B., 1897; LL. M., 1898; M. P. L., 1899.  
 John P. Pryor, LL. B., 1893.  
 Herbert Putnam, LL. D., 1903.  
 Preston B. Ray, B. S., 1899.  
 Chas. W. Richardson, M. D., 1884.  
 John F. Robb, M. P. L., 1904.  
 Nathaniel E. Robinson, A. B., 1901; A. M., 1902.  
 Geo. H. Sensner, B. S., 1902.  
 Dorothea F. Sherman, A. B., 1906.  
 Paul Sperry, A. B., 1902.  
 A. VanderVeer, M. D., 1863; LL. D., 1904.  
 Marguerite Weller, A. B., 1911.  
 A. G. Wilkinson, A. M. (Hon.), 1859; Ph. D., 1878.

It is the intention of the committee in charge of the Endowment Campaign to continue systematic work in seeking funds, and it is hoped that the responses will be generous and that the University will soon be receiving some income from this endowment.

Local Alumni Associations have been formed in the cities of New York, Denver, Salt Lake City, Seattle, San Francisco, Los Angeles, Portland, Ore.; Spokane, St. Paul, and Minneapolis. While some of these associations have not been very active, a number hold meetings

at regular times and are useful factors in spreading the reputation of this University and in stimulating interest among our graduates.

The first systematic catalogue of the graduates was published in the fall of 1891, just twenty years ago. At that time there were in attendance about 800 students, although the average attendance from 1871 to 1891 had been only 400. During the twenty years from 1891 to 1911 the registration of students has averaged 1,210, and the number of degrees conferred has averaged 224. Up to 1891 there had been 3,183 degrees conferred upon 2,578 persons. Since that date it has conferred 4,495 degrees upon 3,593 persons. It will be seen, therefore, that during these last twenty years the University has conferred degrees upon more people than had received degrees during the first seventy years after its foundation. As a consequence of this recent rapid growth, the majority of the graduates are young men who are just making their way in the world, and have not yet reached that state of financial prosperity which will permit them to aid us as largely as do the graduates of many of the older universities.

Notwithstanding the comparative youth of a majority of the graduates, they are making records of which we may well be proud. Reports that I receive indicate that the graduates of our schools of Law and Medicine are becoming leaders in their communities, at the bar, on the bench, and in the practice of Medicine and Surgery.

In this city, the leading practitioners at the bar are graduates of our Law School, and our Medical School has graduated the men who hold the first rank as physicians and surgeons. In the service of the nation our alumni have always been prominent. Such men as George B. Cortelyou, Postmaster-General Hitchcock, Assistant Postmaster-General Stewart, Dr. W. S. Washburn, Civil Service Commissioner; Fred Dennett, Commissioner of the Land Office; John W. Langley, William H. Heald, and Irwin S. Pepper, members of Congress, are living testimonies to the training for public service that this University can give.

While we may wish, and perhaps have the right to expect, more active help from the alumni than has been shown in recent years, I believe that we have a loyal body of graduates whose interest in the University is growing, and who may be relied on more and more to give active aid in its development.

H. L. HODGKINS,  
*Secretary of the Alumni.*

PRESIDENT CHARLES H. STOCKTON.

SIR: I have the honor of submitting to you the following report on the financial status of the University:

At the close of the fiscal year 1910 the liabilities of the University amounted to \$538,120.41, in addition to \$369,405.98 impairment of the



endowment funds, as reported by the Attorney-General of the United States as a result of the investigation ordered by Congress. During your administration, the old liabilities have been decreased to \$13,144.61, and the endowment funds have been all fully secured by a deed of trust on the Medical Hall and Hospital.

Of the \$13,144.61 debt, \$7,393.98 is the remaining debt to the Alumni Hall Fund, and the Building, Site, and Enlargement Fund. The total indebtedness to these funds, as reported by the Attorney-General, was \$40,373.59. The University has been relieved from repayment of \$32,979.61, and probably will likewise be relieved from repayment of the remaining \$7,393.98. Those subscribers to the two funds who have already generously waived claim for reimbursement of payments made by them are :

George N. Acker.  
C. H. Ackert.  
Vera E. Adams.  
M. E. Ailes.  
C. R. Aldrich.  
L. P. Altschu.  
H. L. Amoss.  
Thomas H. Anderson.  
C. R. Arundell.  
A. D. Andrews.  
P. Ash.  
D. A. Baer.  
Wm. H. Baldwin.  
E. M. Ball.  
Wm. Ballantyne & Sons.  
L. A. Bauer.  
J. W. Bayard.  
John W. Beall.  
A. G. Bell.  
James W. Berry.  
Berry & Whitmore Co.  
Frank H. Bigelow.  
J. R. Biggs.  
J. A. Black.  
L. C. Black.  
Henry P. Blair.  
Fred M. Bogan.  
W. A. Boyd.  
C. B. Boyle.  
E. R. Braddock.  
F. von Briesen.  
Cecil Brown.  
Clement Brown.  
T. E. Brown.  
J. H. Bruninga.  
Edwin D. Burchard.  
M. C. Buckingham.  
N. L. Burchell.  
W. K. Butler.

L. H. Call.  
C. C. Calhoun.  
W. G. Carr.  
W. P. Carr.  
S. C. Carnes.  
C. Chester Caywood.  
J. W. Chappell.  
S. C. Chappell.  
Vera K. Charles.  
Chi Omega Fraternity.  
F. W. Childs.  
Cristine M. Church.  
M. Church.  
Thatcher Clark.  
Henry C. Clark.  
F. W. Clarke.  
A. M. Clephane.  
Walter C. Clephane.  
F. G. Coldren.  
F. D. Couden.  
Rush W. Conklin.  
M. T. Cooke.  
G. B. Cortelyou.  
W. M. Crook.  
C. C. Craft.  
Marion E. Craig.  
L. M. Cuthbert.  
Robert D. Dalzell.  
H. C. Davis.  
Arthur W. Davidson.  
A. P. Davis.  
Charles R. Dean.  
W. C. Dennis.  
C. H. Dewey.  
Wm. A. DeCaindry.  
Wms. Donnally.  
Howard F. Dougherty.  
B. Alfred Dumm.  
H. B. Durant.

John P. Earnest.	P. C. Hutton.
F. Edler.	V. B. Jackson.
J. J. Edson.	H. G. Jacobs.
W. C. Eustis.	J. E. Jenks.
E. D. Everett.	J. A. Johnston.
Fairmont Seminary.	H. C. Jorgenson.
J. E. Farnum.	C. S. Kalb.
John W. Foster.	H. E. Kalusowski.
R. A. Foster.	V. Kauffman.
E. T. M. Franklin.	R. F. Keller.
F. Franklin.	W. H. Keller.
F. R. Fravel.	R. F. Kirkman.
I. C. Freeman.	A. F. A. King.
H. M. Fulton.	W. B. King.
F. C. Garvin.	R. Kingsman.
H. N. Garner.	W. A. Knowles.
C. D. Garrett.	S. E. Kramer.
H. R. Gary.	Marion G. Lake.
B. C. Getsinger.	J. B. Larner.
L. E. Giles.	J. W. Latimer.
M. W. Gill.	G. R. Lawrence.
H. K. Gill.	A. B. Leet.
T. N. Gill.	F. E. and A. M. Leupp.
Wm. T. Gill.	M. Levin.
D. G. Gillette.	F. Lewis.
A. C. Gonzalez, Jr.	H. L. Lewis.
G. Gordon.	G. D. Litchfield.
H. H. Gordon.	C. R. Lombard.
J. H. Gore.	E. G. Lorenzen.
Audrey Goss.	W. H. Lowdermilk & Co.
Charles V. Grant.	C. B. Lovett.
S. H. Greene.	E. J. Lundy.
C. I. Griesheimer.	A. H. McCormick, Jr.
G. R. Harding.	F. A. McDermott.
Robert N. Harper.	F. D. McKimey.
Clara S. Hay.	W. D. McKim.
George N. Henning.	Mrs. J. McMillan.
L. F. J. Hepburn.	F. A. McNeill.
Samuel Herrick.	G. B. McClellan.
W. B. Herr.	I. B. McNeal.
Katherine Herring.	H. M. Manning.
E. V. Heth.	L. R. Manville.
C. Heurich.	T. T. Marye.
P. S. Hichborn.	H. S. Matthews.
E. A. Hill.	W. F. Mattingly.
Wm. Hislop.	M. B. May.
H. B. Hitz.	L. A. Merritt.
J. W. Holcombe.	Mert & Mertz Co.
Lucy Holcombe Chapter, D. A. R.	E. W. Miller.
J. Hoberman.	A. G. Mills.
James F. Hood.	H. E. Molzahn.
N. M. Hopkins.	Joseph F. Moore.
Mrs. A. Hopkins.	Wm. G. Morgan.
T. S. Hopkins.	C. F. Morris.
Mrs. T. S. Hopkins.	A. C. Moses.
A. H. Hord.	J. E. Mulcare.



Charles F. Munday.	E. W. Smith.
Charles E. Munroe.	Ethel M. Smith.
C. Muskat.	Frank N. Smith.
H. B. Myers.	Huske & Smith.
H. T. Newcomb.	W. H. H. Smith.
J. B. Nichols.	E. Q. Smith.
T. W. Noyes.	Walter O. Snelling.
H. Pack.	A. H. Snow.
C. W. Parks.	C. M. Stadden.
G. F. Peck.	E. W. Staples.
S. J. Peelle.	S. H. Steele.
J. S. Pendleton.	E. T. Stephenson.
H. T. Penny.	H. E. Stonebaker.
A. D. Phillips.	J. Strasburger.
I. W. Phillips.	G. Strong.
J. G. Pollard.	S. E. Swayze.
A. M. Poynton.	H. A. Swenarton.
E. C. Powers.	O. D. Swett.
D. W. Prentiss.	E. A. Swingle.
K. M. Raber.	H. B. Talley.
A. T. Ramsay.	Edward Taylor.
J. H. Ransburgh.	H. Taylor.
G. L. Ramsey.	H. C. Thompson.
J. W. Rawlings.	Mrs. J. W. Thompson.
F. L. Rector.	E. S. Thurston.
L. H. Reichelderfer.	F. H. Tichenor.
P. A. Rehr.	J. R. Tucker.
Charles M. Remey.	M. S. Tucker.
E. E. Richardson.	F. W. Vasenius.
H. H. Riddleberger.	A. VanderVeer.
W. C. Rives.	W. R. Vance.
S. Roche.	J. Van Rensselaer.
H. L. Rohrback.	C. W. A. Veditz.
E. W. Ross.	H. J. Wagner.
C. F. Rougeau.	W. S. Washburn.
S. Ruffin.	F. P. Weller.
O. Ruppert.	M. Kendall.
T. L. Rust.	A. G. Wilkinson.
R. Rutherford.	Charles S. White.
T. S. Samson.	L. C. White.
E. O. Schreiber.	E. M. White.
James B. Scott.	C. W. Whitmore.
O. H. P. Scott.	Ethel Whitmore.
E. G. Seibert.	Wm. A. Wilbur.
L. Shackelford.	H. W. Wiley.
R. W. Shoppell.	H. A. Willard.
D. K. Shute.	H. K. Willard.
F. L. Siddons.	C. P. Wilson.
A. Simon.	J. T. Wolfe.
H. K. Simpson.	W. Wolverton.
J. B. Sleman.	A. S. Worthington.
A. C. Sloan.	G. H. Wright.
Charles S. Smith.	J. R. Wright & Co.
Chester H. Smith.	Mary E. Wright.
D. H. Smith.	H. C. Yarrow.
Dyer Smith.	

Subscriptions were received toward meeting the old debts from—

Vera E. Adams.	Ernest G. Lorenzen.
L. P. Altschu.	F. D. McKenney.
William H. Baldwin.	A. G. Mills.
L. A. Bauer.	Charles E. Munroe.
James W. Berry.	H. J. Pack.
Cecil Brown.	H. H. Pearce.
A. B. Browne.	S. C. Peelle.
J. H. Bruninga.	S. C. Peelle, Jr.
Robert D. Dalzell.	S. J. Peelle.
H. C. Davis.	H. C. Perkins.
Clarence W. DeKnight.	George B. Post & Sons.
Dulin & Martin Co.	D. W. Prentiss.
John Joy Edson.	Katherine M. Raber.
The Evening Star.	Jesse W. Rawlings.
William J. Flather.	Jesse H. Ramsburgh.
Lewis Flemer.	P. A. Rehr.
Romulus A. Foster.	Charles W. Richardson.
Daniel Fraser.	H. H. Riddleberger.
H. Noel Garner.	S. Roche.
Louis E. Giles.	James M. Sheridan.
Hayner H. Gordon.	Dyer Smith.
Audrey Goss.	Eugene E. Stevens.
A. B. Hagner.	Charles H. Stockton.
Clara S. Hay.	H. A. Swenarton.
Giles F. Heilprin.	J. Randolph Tucker.
Myron F. Henkel.	W. R. Vance.
Joel Hillman.	A. VanderVeer.
S. Hoberman.	William S. Washburn.
Archibald Hopkins.	The Washington Post.
C. S. Kalb.	John L. Weaver.
S. Kann's Sons & Co.	Emilie M. White.
William B. King.	C. P. Wilson.
John B. Lerner.	A. S. Worthington.
J. S. Lemon.	Zellers & Co.
F. E. and A. M. Leupp.	

The following table shows the assets and outside liabilities of December 1, 1911, as compared with those of August 31, 1910:

ASSETS.	
August 31, 1910:	
University and Law Halls.....	\$550,000.00
Medical Hall and Hospital.....	403,599.93
Libraries .....	35,596.88
Furniture and equipment.....	73,101.01
Productive property and funds.....	105,017.59
Unproductive property .....	35,140.80
Withdrawal value, insurance deposits....	3,003.75
Cash .....	1,930.82
	<hr/> \$1,208,390.78



## LIABILITIES.

Mortgage debt .....	\$450,000.00	
Accrued interest on above.....	7,500.00	
Floating debt to banks.....	71,500.00	
Accrued interest on above.....	1,321.87	
Accrued taxes on real estate.....	80.11	
Accounts payable .....	7,718.43	
		<u>538,120.41</u>

Excess of assets August 31, 1910..... \$670,270.37

## ASSETS.

December 1, 1911:

Medical Hall and Hospital.....	\$403,599.93	
Libraries .....	37,373.73	
Furniture and equipment.....	74,988.81	
Productive funds .....	131,685.92	
Unproductive property .....	29,864.40	
Withdrawal value, insurance deposits....	1,721.25	
Cash .....	7,594.92	
		<u>\$686,828.96</u>

## LIABILITIES.

Building site and Enlargement Fund (payments not waived).....	\$6,483.98	
Alumni Hall Fund (payments not waived)	910.00	
Accounts payable, old.....	5,750.63	
Accounts payable, current.....	4,677.19	
		<u>17,821.80</u>

Excess of assets December 1, 1911..... \$669,007.16

The following table shows the current financial status of the University:

Accounts payable prior to August 31, 1910.....	\$5,750.63
Estimated deficit, 1911-1912.....	12,346.00

Total debt to be met in 1911-1912..... \$18,096.63

To meet which there are current subscriptions pledged as follows:

College of the Political Sciences.....	\$7,400.00	
Maintenance fund .....	8,405.00	
		<u>15,805.00</u>

Amount unprovided for..... \$2,291.63

The College of the Political Sciences Fund was subscribed exclusively for the support of the College of the Political Sciences. Subscribers to the fund were:

American Exporter.	Victor F. Lawson.
Amory Brown Co.	Seth Low.
J. D. Archbold.	Frank O. Lowden.
Ault & Wiborg Co.	W. B. McKinley.
Bausch & Lomb Optical Co.	George A. McKinlock.
Cornelius N. Bliss	Markt & Co.
William S. Brown.	Bradley Martin, Jr.
George Burnham, Jr.	William G. Mather.
Carters' Ink Co.	H. A. Metz.
Carter, Macy & Co.	Minot, Hooper & Co.
H. B. Claflin Co.	J. Pierpont Morgan.
Cotton Mfgs. Association of S. C.	J. Pierpont Morgan, Jr.
Lucius M. Cuthbert.	Levi P. Morton.
C. C. Cuyler.	National Supply Co.
Deering, Milliken & Co.	Oelrichs & Co.
Eastman Kodak Co.	James A. Patten.
Faulkner, Page & Co.	Thomas A. Phelan.
J. N. Field.	J. C. Shaffer.
E. H. Gary.	E. S. Shearson.
Senator S. Guggenheim.	A. Stein & Co.
John Hays Hammond.	J. H. Wade.
Clara S. Hay.	Paul Warburg.
Arthur C. James.	George P. Wetmore.
Juilliard & Co.	Clarence Whitman.
Otto H. Kahn.	Woodward & Baldwin Co.
John S. Kennedy.	

The Maintenance Fund was subscribed for meeting the running expenses of the University. Subscribers to the fund were:

Bert T. Amos.	Lansburgh & Brother.
Emile Berliner.	A. Lisner.
F. H. Bethell.	Homer N. Lockwood.
Achille E. Burklin.	A. M. Lothrop.
P. B. Chase.	L. J. Mather.
Charles I. Corby.	F. D. McKenney.
John Dolph.	Clarence F. Norment.
F. E. Edgington.	Theodore W. Noyes.
W. W. Finley.	Parker, Bridget & Co.
F. L. Fishback.	Henry C. Perkins.
Albert F. Flint.	M. Philipsborn.
Horace M. Fulton.	D. S. Porter.
E. M. Gallaudet.	Charles W. Richardson.
M. Goldenberg.	P. M. Rixey.
E. C. Graham.	W. H. Saunders.
W. F. Gude.	James Sharp.
William Hahn & Co.	F. L. Siddons.
William B. Hardy.	Della G. Smallwood.
Hecht & Co.	Dorothy Smallwood.
W. B. Hibbs.	T. Towson Smith.
Hennen Jennings.	Charles H. Stockton.
F. V. Killian.	George W. Stuart.
George W. Knox Express Co.	The Washington Times.



The Washington Post.  
George W. White.  
Harvey G. Winfield.  
S. W. Woodward.

Xander & Plugge.  
R. H. Young.  
Zellers & Co.  
Hyman Zirkin.

Toward meeting the expenses of the University for the year 1912-1913 subscriptions are available of \$4,900 to the College of the Political Sciences Fund and \$1,400 to the Maintenance Fund. Subscriptions to the above funds cease with the close of the year 1912-1913. Toward meeting future expenses efforts are now being made to secure one hundred subscriptions of \$100 each for five years. Thus far the following have subscribed:

1. Maxwell Van Z. Woodhull (1st sub.).
2. Maxwell Van Z. Woodhull (2d sub.).
3. Wm. J. Flather (1st sub.).
4. Wm. J. Flather (2d sub.).
5. Chas. C. Glover (1st sub.).
6. Chas. C. Glover (2d sub.).
7. S. W. Woodward (1st sub.).
8. S. W. Woodward (2d sub.).
9. Henry H. Flather (1st sub.).
10. Henry H. Flather (2d sub.).
11. Wm. A. Mearns (1st sub.).
12. Wm. A. Mearns (2d sub.).
13. Thomas Hyde (1st sub.).
14. Thomas Hyde (2d sub.).
15. H. C. Perkins (1st sub.).
16. H. C. Perkins (2d sub.).
17. Swartzell, Rheem & Hensey Co. (1st sub.).
18. Swartzell, Rheem & Hensey Co. (2d sub.).
19. M. E. Ailes.
20. Murray A. Cobb.
21. C. J. Bell.
22. Wm. D. Hoover.
23. John B. Larner.
24. John Joy Edson.
25. Wm. Corcoran Hill.
26. Henry B. F. Macfarland.
27. J. Wm. Henry.
28. Lewis Flemer.
29. Bessie J. Kibbey.
30. Charles Francis Adams.
31. Aldis B. Browne.
32. C. H. Stockton.
33. W. B. & G. A. King.
34. Wayne MacVeagh.
35. J. R. Dos Passos.
36. J. H. Wheelwright.
37. Nathaniel Wilson.
38. John Taylor Arms.
39. William P. Eno.
40. F. G. Newlands.
41. W. Duncan McKim.
42. W. C. Rives.
43. William A. Slater.
44. Walter S. Hutchins.
45. C. Heurich.
46. Hennen Jennings.
47. Harry Wardman.
48. Joseph Paul.
49. Walter Tuckerman.
50. Elizabeth Noyes.
51. Theodore W. Noyes.
52. F. D. McKenney.
53. Edson Bradley.
54. Stone & Fairfax.
55. Gist Blair.
56. T. T. Goff.
57. Geo. N. Acker.
58. Columbian Women.
59. Kappa Sigma Fraternity.
60. William C. Eustis.
61. E. E. Jordan.
62. James B. Lambie.
63. Berry & Whitmore Co.
64. W. B. Moses & Sons.
65. Arthur H. Plant.
66. Thomas S. Hopkins.
67. A. M. Lothrop.
68. Owen F. Aldis.
69. Randall Hagner.
70. James M. Flint.
71. Dulin & Martin Co.
72. Willard H. Brownson.
73. Ralph Galt.
74. Joseph Leiter.
75. Ralph Jenkins and Henry Davis.
76. W. H. Beck.
77. W. B. Hibbs.

CHARLES W. HOLMES,  
*Treasurer.*







THE GEORGE WASHINGTON UNIVERSITY

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ANNUAL REPORT

OF THE

PRESIDENT

January 11, 1911

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WASHINGTON, D. C.  
PRESS OF JUDD & DETWEILER, INC.  
1911





THE GEORGE WASHINGTON UNIVERSITY

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PRESS OF JUDD & DETWEILER, INC.  
1911





## REPORT OF THE PRESIDENT.

OFFICE OF THE PRESIDENT,  
THE GEORGE WASHINGTON UNIVERSITY,  
WASHINGTON, D. C., *January 11, 1911.*

*To the Chairman  
of the Board of Trustees,  
George Washington University.*

SIR: On the 12th of July, 1910, Dr. Needham, the President of the University, having been granted a leave of absence, I was authorized by the Board of Trustees as Acting President to perform all the necessary and proper acts and functions of President by the title of Acting President.

I had been previously engaged in preparing a reduced budget for the University based upon its greatly reduced income. This forced both a reduction of salaries and a curtailing from the list of instructors of those whose salaries could not be met from the probable income of the University. This reduction involved the abolition of the Division of Architecture and of the Women's Building, as well as that of the position of Dean of Women.

In the meantime an investigation of the financial condition of the University had been initiated by the Attorney General of the United States at the instance of the House of Representatives, which investigation was continued by the examiners from that office until the 15th of November. The two separate reports made to the House of Representatives accompany this report and will be found appended, the preliminary report under date of June 2d, 1910, and the final report under date of December 6, 1910.

Final negotiations for the sale of the property at the corner of 15th and H Streets N. W., including the Law School Building and lot, were begun on June 29, 1910, with Mr. S. W. Woodward, for the sum of \$550,000. These negotiations were



brought to a close and the sale effected October 25, 1910. By this sale the University was relieved of the incumbrance of \$450,000 upon its property and the major portion of its floating debt.

The tentative budget for the year 1910-11 was presented to the Executive Committee of the Board of Trustees by the Acting President, July 22, 1910, and by the Committee adopted as such at that meeting. This budget, which with some amendment was finally adopted and put in force, applied to all Departments of the University except Law, Medicine, and Dentistry and the affiliated colleges. The Departments of Law, Medicine, and Dentistry, including the University Hospital, has for the year mentioned a separate financial autonomy.

The reduction in the teaching staff in all the Departments of the University, which was accompanied by a general reduction of salaries, amounted to ten professors, three assistant professors, one instructor, three lecturers, one Dean of Women, one assistant, and one student assistant.

The total saving estimated by the budget of this year over that of last year is, excepting the Departments mentioned above, \$43,159.80. This saving is mainly due to the elimination of interest charges.

The total amount saved in the salary list of this year for the Departments of Medicine and Dentistry, including the University Hospital, is \$3,583.75; for the Department of Law, \$6,343.47.

The sale of the property at 15th and H Streets, requiring the removal from the buildings placed thereupon, the moving began in August and continued in September. The Law Department was moved to and installed in the upper floors of the New Masonic Temple, which were rented for a period of three years; the College of Arts and Sciences, with the exception of the instruction in History, was moved to the group of buildings on I Street near 16th Street, which was rented for a period of one year, with the privilege of extension for three years; the Engineering College and the Teachers' College

still remaining in these premises. The Chemical Laboratory was moved to the Medical School Building, and the Department of History to the building occupied by the College of Political Sciences. There being no room for the machinery, etc., of the mechanical laboratory of the College of Engineering, a stable was rented for its storage, at the rate of \$360 per annum.

In order to properly install the Law Department and the College of Arts and Sciences, very considerable alterations had to be made in the upper floors of the Masonic Temple and in the group of buildings on I Street. Although this had to be done in a limited space of time to allow the moving of the plant of these Colleges, I am glad to say that this was successfully accomplished. Great credit was due to the Treasurer of the University, who acted as the business agent of the University in making the necessary arrangements by the time scheduled for opening.

The academic year of the University began in all Departments on Wednesday, September 28, 1910, and on the following Saturday the registration in all Departments was 798, slightly in excess of the previous year at the same time.

On Monday, January 9, 1911, the last enumeration shows a total registration of 1,177. It must be borne in mind that the Division of Architecture has been abolished, and in counting the students in Graduate Studies a differentiation is made by not including those whose courses still continue, but who are not during this year actually in attendance. Considering the critical state of the University in the summer, this registration is gratifying, especially as the number of scholarships and the number, also, of free tuitions have been reduced.

On account of the number of delinquent students found from the reports of the Treasurer for previous years, regulations were formulated and adopted by the Executive Committee and the Board of Trustees to promote regular payments of tuition, including a method of bonding to apply to tardy and delinquent payments. These regulations will be modified as experience dictates.



The Fall Convocation was suspended this year, and instead of a public function the degrees were conferred by the President in his office on the 18th of October, 1910, viz., one Bachelor of Arts, one Bachelor of Laws, three Masters of Patent Law, and three Doctors of Medicine.

A bequest of \$9,583.33 was received in November from Miss Ellen Woodbury, lately deceased, for the University Hospital for the purpose of defraying the expenses of the reception and treatment of female patients. This has been duly invested as an endowment fund for the above purposes.

On the 30th of November new by-laws for the Government of the Board of Trustees were adopted, and on December 22 a new educational ordinance was submitted to and approved by the Board of Trustees. These have been printed for the use of all concerned.

I submit with this report the annual report of the Treasurer of the University for the year ending August 31, 1910, audited by Mr. William A. De Cindry, then auditor. This report was withdrawn from issue; but, as there seems to be no doubt of its correctness, and as the report is regularly audited and the figures conform to those found in the Attorney General's report, I submit it for the consideration of the Board of Trustees. There is no other financial report beyond that of the Attorney General in readiness or necessary at the present time.

The next report from the Treasurer will be the annual report provided by the new by-laws to be laid before the Trustees at their meeting in October.

The reports from the different Departments, Colleges, and Schools are submitted herewith and I trust will receive the consideration they deserve from the Board of Trustees. I shall herewith make a review of them, giving proper respect and deference due to the views of the different deans, some of whom have grown gray in the service of the University during its changes and vicissitudes.

## SCHOOL OF THE GRADUATE STUDIES.

Were it not for the peculiar advantages afforded by this capital city I would feel somewhat discouraged at the progress and present state of this school. However, Dean Munroe, who has been given the duties of the Dean of this school, says:

The more costly necessities for graduate work, such as specialized libraries, museums, and laboratories, became organized or developed by the Government within easy access of the University buildings. Through the operation of Civil Service examinations, a selected body of earnest college-bred men and women, many of whom were desirous of specializing in advanced studies, were brought to this city, and finally, on April 12, 1892, by joint resolution of Congress, the facilities for research afforded by the governmental collections in Washington were made accessible, under proper restrictions, to scientific investigators and to students of any institution of higher education in the District of Columbia.

This action by Congress added so greatly to the resources of the University that the matter of devising means by which the latter might justify its title and meet its obligations by offering graduate courses leading to higher degrees was carefully considered and a plan canvassed in the community with such result that the School of Graduate Studies was organized and began operations at the opening of the academic year 1893-94. It has continued work ever since and is therefore in its 17th year of existence. The determining factor in this movement was found in the approval it met with from university-bred specialists, who had been attracted to Washington in considerable numbers during the last quarter of the 19th century, when the Government applied the policy of placing its problems in the hands of men of proven skill in the use of scientific research methods for solution, since many of these eminent specialists were willing to co-operate with the professors of the University in conducting the work of graduate students. Moreover, they were so interested in the result that they consented to serve on conditions that were quite within the capacity of the University to meet. \* \* \*

The first step is in the releasing of the men of graduate capacity on our faculties from an overburden of undergraduate work. I cannot speak too strongly on this point, for it is fundamental. The work cannot go on unless there be a nucleus



of professors conducting it whose first duty is to the University. We must have the corps of ordinary professors to which the body of extraordinary professors is attached. \* \* \*

I cannot be too strenuous in urging in the interest of the University that these and other of our faculties be released from a larger part of their undergraduate duties, and in doing so I earnestly believe I am advocating that which will increase the efficiency of the undergraduate quite as much as the graduate work. I therefore specifically recommend that to improve conditions in the graduate faculty the number of instructors in the undergraduate faculties be increased, and that the professors thus released be expected, and the instructors appointed be encouraged, to engage in research and publication, and in the direction of research students.

#### THE COLLEGE OF ARTS AND SCIENCES.

The total registration of this college November 21, 1910, was 247, in comparison with 286 of the previous year, November 22, 1909. This loss is due to an extent to the discouraging influences of the critical financial state of the University during the past year, and probably in some measure to the expected contraction of work through the loss of men on the teaching staff, due to the methods of economy which were absolutely necessary. The integrity of the curriculum, however, has been sustained, this being due almost entirely to the fidelity and self-sacrifice of the remaining members of the teaching staff. With respect to the relations of this college with the educational affairs of the District, I can do no better than to quote from the report of Dean Wilbur. He says:

Seven per cent only of our students come to Washington primarily for their education. This shows that the College of Arts and Sciences is ministering to local needs in higher education. The stability of our student body, notwithstanding all the disquieting influences in University affairs during the past year, shows also that the educational service we render is the primary and controlling relation that we bear to the community. Our constituency is a natural one in that we supply educational opportunities not otherwise afforded in the District of Columbia. It is peculiarly our own, also, in that it would not seem to interfere appreciably with the constituency of any

institution of higher education outside Washington. The most of those who are pursuing college courses with us would not be able to get them at all if we did not offer these courses. It is not surprising, therefore, that the discussion of University affairs in the District leaves the educational work of the college comparatively unmoved. Nothing but the actual curtailment of study is likely to have a direct effect upon our registration.

Besides the needs as to the teaching staff, common to most of the Departments of the University and concerning which I will speak of later, a pressing need in this college, as well as in all in which Chemistry is taught, is more laboratory room. The ordinary resources of the University will not be able to fully provide this need, but it may be well worth mentioning here as presented to the Dean of the College as an imperative need by the able head of the Department, Professor Munroe.

#### THE COLLEGE OF ENGINEERING AND MECHANICAL ARTS.

The attendance in this college is the same as during last year, amounting to a maximum of 173 students. This college has lost more materially by the contraction of the University and the sale of the building at 15th and H Streets than perhaps any other one. The engineering laboratory and shop formerly contained in the basement of the old University Hall could not be placed in any building now used by the University, and hence had to be broken up and the machinery stored in the stable rented for that purpose.

The re-establishment of this mechanical laboratory upon one of the vacant lots now owned by the University and lying idle, and which, if it should be necessary by the terms of the gift, could be rented at a nominal sum for educational purposes, would solve the most pressing need of this college. With a total sum of \$15,000 we could construct the necessary laboratory building, install our present machinery, and provide such additional machinery as would make it possible to give proper laboratory and shop courses. If this or some similar means cannot be adopted we must discontinue our courses in Mechanical Engineering.



## THE TEACHERS COLLEGE.

The Teachers College shows an increased registration this year. It fills a much needed place in the District, supplementary to the Normal Schools of the District School System. An expansion of this college would result in increased attendance and usefulness. During last summer earnest efforts were made to demonstrate the great utility and need of this college to the community by various interested outside organizations. So long as the college maintains itself as well as it has done this last year, every reasonable effort will be made to sustain and develop the institution.

## THE COLLEGE OF POLITICAL SCIENCES.

The College of Political Sciences is the last organized college in the University and occupies a unique situation in the community and country at large. Its aim is to offer systematic instruction in the various branches of the political sciences. It proposes to give a training that will fit certain of its students for consular and diplomatic positions and for the public service of the United States of America, at the same time imparting that general culture necessary for efficient citizenship and an intelligent grasp of public questions. To no form of government is this more important than a republican form like our own, as those who instruct or lead the people should in turn be sufficiently instructed to do so properly.

The total registration during the past semester amounted to 71 persons. This is considerably in excess of the number registered last year. The Dean of this college, which now has a teaching staff of ten persons, reports that the course of instruction printed in the catalogue for the current year is being satisfactorily given and upon a reasonable basis of efficiency. He states in his report that in his opinion the work of the College of the Political Sciences, if properly done, will never be self-supporting, and that either current subscriptions or endowments must be had if good courses are to be maintained.

The lectures of Prof. James Brown Scott upon International Law, valuable alike from their importance and his own official experience, are generously given without compensation.

Dean Willis, in closing, says:

I wish to express the confidence I feel in the character of the work that is being done in the College of the Political Sciences and in the genuine appreciation and need for it which exists among our student body. I believe there is a large field for such work in Washington, and that this city is probably a better point for the maintenance of instruction in political science than any other in the country. We have no competitor in the field, and none now seems likely to enter it in the near future. The question what we shall do with the opportunity afforded to us is therefore open and entirely in our hands for settlement.

#### THE DEPARTMENT OF LAW.

"The condition of the Department of Law," says Dean Lorenzen, in his annual report, "is full of encouragement." The new quarters in the Masonic Temple have proven in every way satisfactory. The registration for this year shows an increase over last year, having a total of 340, with a present net registration of 316. The work of the Department started promptly at the opening of the term, and has been faithfully carried out to the present writing.

This law school, with its high standards, leads, in my opinion, all others in the District, and every exertion and self-denial should be made to maintain its high position as a day school. A large portion of the students come to school late in the afternoon, but the standards are measured by the morning classes rather than by those of the later period. It is on the whole the largest and most successful school of the University and assists materially in meeting the expenses of administration, which are so vital to the University organization. Under the present Dean and Faculty I look for no backward step in the maintenance of the high character of the Department. While I say this I am in duty bound to recognize the losses by the resignations of Mr. Justice Harlan, Dean Vance,



and Professor Thurston from the faculty. That of Justice Harlan marks a period almost historical in its character, as his long connection with the faculty and the Law Department and his devotion and fidelity to the University have been shown in many anxious and critical periods. It gives me pleasure to speak of the past connection of Justice Harlan with the University and Law Department, as I do it as a matter of justice and without the privilege of his personal acquaintance.

It is expected next year to be able to replace some, if not all, of the losses made by the resignations above referred to, and to strengthen the existing distinguished faculty by able if less experienced instructors.

#### THE DEPARTMENT OF MEDICINE.

The Department of Medicine has shown an unexpectedly good maintenance in its number of students and very satisfactory progress in all branches of its administration. By a close personal inspection made recently I have assured myself of the great improvement made in the conditions of the school and Hospital, especially the latter, which bids fair, so far as the funds within its control permit, to be a model hospital in the District. The mutual effect of a teaching staff of high professional standing upon a well-conducted hospital and the stimulating effect of such a hospital upon the faculty and students of the school is apparent, even to the lay mind in this case. The proposed improvements in the Medical and Dental plants of the Schools and Hospital may be carried out at least in part during the coming year, and are rendered possible only by a self-denial on the part of the faculties of both schools.

Under the present Dean, whose previous service in the U. S. Army naturally led us to expect the efficiency which he has displayed, I look forward to constant progress in the development and maintenance of the standards now existing in the Medical School, while the administration of the Hospital appeals to those charitably inclined by presenting an object in every way worthy both as a benevolent institution and an in-



strument for advancing the skill of a profession to which we all as human beings have to appeal sooner or later. Already in the present year some bequests have been received, and its present state of efficiency justifies the expectation of more.

#### COLLEGE OF PHARMACY.

I am glad to report that the improved standards of the College of Pharmacy have been maintained. This college was founded in 1872, and at its opening the classes were composed of students who entered for the first time, and of others who had been referred to the College by the Medical Department of Columbian College, which at the same time discontinued its chair of Pharmacy. In 1906 it became by affiliation and separate charter a member of the educational system of this University. This affiliation and the demand for higher educational standards from the Pharmaceutical Association required an increase of the educational requirements of this college which has been complied with.

From the records of the Board of Pharmacy of this District, an independent examining body of high reputation appointed by the Commissioners of the District, it is shown that of the graduates of this college who have been examined eighty-seven (87) per cent were found qualified and received their licenses, a very favorable comparison with other colleges.

By a personal inspection on my part I found the equipment for instruction in a satisfactory condition and the supplies and material for laboratory work, if anything, in excess of what is required.

#### COLLEGE OF VETERINARY MEDICINE.

The College of Veterinary Medicine shows an increased attendance this year. It was organized under Section 2 of the Act of 1905, and as an affiliated college was chartered in 1908. Its financial autonomy prevents it from being a weight upon the University, and if the Morrill Acts become available it will be a useful part of the Agricultural College.



It gives me much pleasure to state that as a result of the sale of the property at 15th and H Streets at a price above what had been offered by several persons during the past two years, and by placing a non-interest-bearing deed of trust upon the property of the University in H Street near 14th Street, the indebtedness of the University has been practically eliminated and its financial condition improved to an extent beyond that existing for many years. The methods followed in disentangling the affairs of the University, as well as an account of the obligations that had been accumulating for many years, are given in the reports of the Attorney General to the House of Representatives, December 6, 1910, published as Public Document No. 1060, 61st Congress, 3d session. That of November 15 gives the resolutions for cancellation of certain subscriptions whose objects no longer exist. It is the intention of the Board of Trustees to present matters concerning the future to the consideration of these former subscribers with a view to obtaining an action favorable to the immediate wants of the University. No change, however, in the financial policy of the University as adopted in the past summer is proposed or intended.

In closing this report, I wish to speak in a general manner of the question of the salaries of the teaching staff of the University. The income of the University is still almost entirely derived from the tuition of students. The previous indebtedness bore an interest which had either not been defrayed, or, if so, only by loans or the use of the principal of various funds until they were exhausted. Even with the reduction of salaries and of the teaching staff a comparatively small yearly deficit still exists. It is hoped and expected that this year and in the immediate future the subscriptions so generously transferred from those made for other objects as well as new ones for the direct purpose will cover the deficits. A gradual increase in these amounts will permit a restoration of salaries, and a slight increase of the teaching staff. These needs are the great immediate needs of the University. The University can, as it does in part, exist in rented buildings, but it must have an



efficient staff of teachers. The increased cost of living makes of itself an automatic reduction in the salaries of the instructors; to this has been added the reduction forced upon the President and the Board of Trustees by the limited income from tuition, never enough unaided to cover expenditures.

If this community has the civic virtue and desire to educate those among them who give on their part the cost of tuition or win it by scholarships, it will endow professorships and meet the deficit in the running expenses of the institution until the University reaches a safe financial basis and attains a position worthy of the only non-sectarian institution of the kind in the capital city of the nation.

Respectfully,

C. H. STOCKTON,  
*President.*